

# **2016 STATE OF HAWAII WATER QUALITY MONITORING AND ASSESSMENT REPORT:**

Integrated Report to the U.S. Environmental Protection Agency and the U.S. Congress  
Pursuant to §303(d) and §305(b), Clean Water Act (P.L. 97-117)



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DRAFT  
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## List of Abbreviations

<b>§</b>	Section
<b>ADU</b>	Attainment Decision Unit
<b>BEACH</b>	Beaches Environmental Assessment and Coastal Health
<b>CCH</b>	City and County of Honolulu
<b>CCME</b>	Canadian Council of Ministers of the Environment
<b>CFU</b>	Colony Forming Units
<b>CWA</b>	Clean Water Act
<b>CWB</b>	Clean Water Branch
<b>CWRM</b>	Commission on Water Resources Management
<b>DLNR</b>	Department of Land and Natural Resources
<b>DMR</b>	Discharge Monitoring Report
<b>DOFAW</b>	Division of Forestry and Wildlife
<b>DU</b>	Decision Unit
<b>EAC</b>	Environmental Assessment Company
<b>EHASB</b>	Environmental Health Analytical Services Branch
<b>EMD</b>	Environmental Management Division
<b>EPA</b>	Environmental Protection Agency
<b>GM</b>	Geometric Mean
<b>GPS</b>	Global Positioning System
<b>HAR</b>	Hawaii Administrative Rules
<b>HIDOH</b>	Hawaii Department of Health
<b>HSA</b>	Hawaii Stream Assessment
<b>IR</b>	Integrated Report
<b>MCS</b>	Microbiology Consulting Services, LLC
<b>MRC</b>	Marine Research Consultants, Inc
<b>NCCA</b>	National Coastal Condition Assessment
<b>NELHA</b>	Natural Energy Laboratory of Hawaii Authority
<b>NOAA</b>	National Oceanic and Atmospheric Administration
<b>NPDES</b>	National Pollutant Discharge Elimination System
<b>NYSDEC</b>	New York State Department of Environmental Conservation
<b>PCBs</b>	Polychlorinated Biphenyls
<b>pH</b>	Power of Hydrogen
<b>ppt</b>	Parts Per Thousand
<b>QAPP</b>	Quality Assurance Project Plan
<b>QAPrgP</b>	Quality Assurance Program Pan
<b>QA/QC</b>	Quality Assurance/Quality Control
<b>QMP</b>	Quality Management Plan
<b>SLD</b>	State Laboratories Division
<b>STORET</b>	STorage and RETrieval
<b>STV</b>	Statistical Threshold Value
<b>TDP</b>	Total Dissolved Phosphorus
<b>TDN</b>	Total Dissolved Nitrogen
<b>TMDL</b>	Total Maximum Daily Loads
<b>TN</b>	Total Nitrogen

<b>TP</b>	Total Phosphorus
<b>TSS</b>	Total Suspended Solids
<b>USACE</b>	United States Army Corps of Engineers
<b>USGS</b>	United States Geological Survey
<b>WBP</b>	Watershed Based Plan
<b>WQ</b>	Water Quality
<b>WQC</b>	Water Quality Certification
<b>WQS</b>	Water Quality Standard

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## EXECUTIVE SUMMARY

The Hawaii State Department of Health (HIDOH) is obligated by the Clean Water Act (CWA) Sections (§) 303(d) and 305(b) to report on the State's water quality on a two-year cycle. The CWA §305(b) requires states to describe the overall status of water quality statewide, and the extent to which water quality provides for the protection and propagation of a balanced population of shellfish, fish, and wildlife, and allows recreational activities in and on the water. The CWA §303(d) requires states to submit a list of waters that do not attain applicable water quality standards, plus a priority ranking of impaired waters for Total Maximum Daily Loads (TMDL) development based on the severity of pollution and the uses of the waters. The 2016 State of Hawaii Water Quality Monitoring and Assessment Report, known as the Integrated Report (IR), meets the requirements for CWA §303(d) and 305(b).

The IR informs the public on the status of marine and inland (streams and estuaries) water bodies and serves as a planning document to guide other CWA programs. The 2016 IR incorporates data collected from November 1, 2013 to October 31, 2015 to provide an updated snapshot of water body conditions throughout the state, and carries over the assessment results from previous IRs. Impaired waters—waters that do not meet the State's water quality standards (WQS)—in the IR may be targeted for further monitoring activities to develop TMDLs, to plan and evaluate CWA §319 nonpoint source (NPS) pollution control projects, and set requirements for National Pollutant Discharge Elimination System (NPDES) permits and §401 Water Quality Certifications (WQCs). The IR not only identifies areas in need of restoration, but serves as a baseline to validate the State's efforts to improve water quality and eventually delist impaired waters that have been rehabilitated.

The 2016 IR implements a standardized assessment methodology for marine waters that establishes watershed decision units (DUs) as the basis for listing and delisting decisions. Assessing state surface waters by watershed DUs provides a more uniform geographical reference for existing IR scopes of assessment, and is consistent with Hawaii's State water goal to implement a watershed-based management approach to protect human and environmental health. This assessment approach is also consistent with the collaborative framework for implementing the CWA Section 303(d) Program—*A Long-Term Vision for Assessment, Restoration and Protection under the Clean Water Act Section 303(d) Program* (Vision), announced in December 2013.

The 2016 IR assessment methodology recognizes a total of 558 watershed DUs throughout the state, with 544 being coastal watersheds. In this report, a total of 44 coastal decision units (DUs) were assessed on Kauai, Oahu, Lanai and Maui to determine if state waters are supportive of public health while recreating and healthy ecosystems. The parameters assessed in this report include bacteria, turbidity, total suspended solids (TSS), chlorophyll *a* and nutrients (total nitrogen (TN), nitrate+nitrite-nitrogen (NO<sub>3</sub>+NO<sub>2</sub>), ammonium-nitrogen (NH<sub>4</sub>), total phosphorus (TP), and where applicable, total dissolved nitrogen (TDN), total dissolved phosphorus (TDP) and orthophosphate (PO<sub>4</sub>) (HAR Ch. 11-54-6(d)).

Assessment results show that 40 coastal DUs are currently not attaining the State Water Quality Standards (WQS) numeric criteria for at least one or more pollutants. Turbidity was the leading

cause of impairment, being the sole cause of a new impairment in 90% of the watershed assessments. This trend is similar to what was observed in previous IRs. Nutrients are the second leading cause of water quality exceedances, with 42% of the assessments failing to meet WQS for one or more nutrients.

A majority of the coastal watersheds assessed on Kauai, Oahu and Lanai meet the water quality criteria for nutrients (63%, 75% and 100%, respectively), while 75% of Maui's coastal watersheds do not currently meet nutrient WQS. Similarly, a majority (83%) of the coastal watersheds assessed in this report are meeting the criteria for chlorophyll *a*. Attainment of chlorophyll *a* WQS is observed in all assessed watersheds on Kauai, Oahu and Lanai, while only 50% of assessed Maui watersheds attain for chlorophyll *a*. Recreational health water quality criteria was met in 98% of assessed watersheds Kauai, Oahu and Maui (100%, 100% and 91%, respectively).

Over the next five years, the State will focus on its resources on developing a more holistic monitoring plan, and addressing sediment and nutrient impairments in priority watersheds for TMDL development and NPS control projects. The State hopes these efforts will improve water quality and decrease the number of impaired watersheds and waterbodies statewide.



## PART A. INTRODUCTION

The purpose of the Integrated Report (IR) is to inform the public of the overall status of water quality statewide, describing the extent to which water quality provides for the protection and propagation of a balanced population of shellfish, fish, and wildlife, and allows recreational activities in and on the water. These reports fulfil the requirements for State reporting pursuant to Clean Water Act (CWA) §303(d) and §305(b), which requires states to provide an assessment every two years on the quality of all their waters (§305(b)), and a list of those waters that are impaired or threatened (§303(d)). This document describes the methodology, datasets and results used to develop the 2016 IR. The report is intended to guide future management actions, provide data for long term trend assessment, and document water quality improvements across the state.

The 2016 IR provides water quality assessment results for both marine and inland waters. The marine assessment results are reported by watersheds decision units where possible, or by individual sampling locations. The assessment period covers a two year time frame (November 2013- October 2015), beginning where the 2014 IR assessment cycle ended (October 2013). As part of the IR process, the HDOH solicited a request for water quality data that closed on November 1, 2015 via the HDOH Clean Water Branch (CWB) website and local newspapers. Similarly, a draft of the 2016 IR is being provided for a 30 day public comment period from **March 20, 2017- April 20, 2017**. HDOH responses to the 2016 IR will be provided in a separate document via the CWB website (<http://health.hawaii.gov/cwb/>).

The 2016 IR document includes background information, a brief overview of the surface water monitoring and assessment program, and subsequent chapters describing the assessment methodologies and results used to determine the status of marine and inland waters. Chapter 1 describes the assessment methodology and results for marine waters, and documents changes since the 2014 IR. The inland water assessment methodology, results and category changes are presented in Chapter 2. Chapter 3 summarizes the current status for all state surface waters in table format.

## PART B. BACKGROUND

### B.1. Scope of Waters in the Integrated Report

The State of Hawaii contains approximately 303 miles of recreational shoreline, 3,326 miles of rivers and streams, 37 square miles of bays and harbors and 5 square miles of lakes and reservoirs. The health of Hawaii's inland and marine waters is vital to the communities for subsistence, cultural practices and recreation. The State's economy is largely dependent on the quality of its shorelines and beaches, which provide opportunities for year round recreational activities.

### B.2. Surface Water Pollution Control Program

The HDOH, CWB is the state agency responsible for protecting and restoring surface water resources for human and environmental health. The CWB's mission is to protect the public health of residents and tourists who recreate in and on Hawaii's coastal and inland water resources and to protect and restore coastal and inland waters for marine life and wildlife.

The CWB implements programs delegated from the U.S. EPA in support of the CWA and Hawaii's goals to protect and restore surface waters to fishable and swimmable standards for the purpose of protecting human and environmental health. The CWA components addressed within the CWB include Water Quality Standards (WQS), Enforcement and Compliance, National Pollutant Discharge Elimination System (NPDES) permits, Water Quality Certifications (WQC), surface water quality monitoring and assessment, Total Maximum Daily Loads (TMDLs) and Polluted Runoff Control. These programs are intended to work in concert to ensure that Hawaii's surface water resources are protected and restored. Specifically, the state's objectives include 1) using an integrated approach to assess state water quality, and 2) addressing sources of water pollution through permits, TMDLs and watershed based plans. More information on the responsibilities and organizational structure of the CWB can be found in the HDOH CWB Quality Assurance Program Plan and on the CWB website.

#### B.2.1. Hawaii Water Quality Standards

The goals for different types of surface water bodies throughout the State are described in Hawaii's water quality standards (WQS), Hawaii Administrative Rules (HAR), Title 11, Chapter (Ch.) 54, hereafter WQS. The WQS describe the appropriate uses for each water body, specify the criteria necessary to protect the designated uses, and define a general policy of water quality antidegradation for all water types:

- (a) Existing uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.
- (b) Where the quality of the waters exceed levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water, that quality shall be maintained and protected unless the director finds, after full satisfaction of the intergovernmental coordination and public participation provisions of the state's continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In allowing such degradation on lower water quality, the director shall assure water quality adequate to

protect existing uses fully. Further, the director shall assure that there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control.

- (c) Where existing high quality waters constitute an outstanding resource, such as waters of national and state parks and wildlife refuges and waters of exceptional recreational or ecological significance, that water quality shall be maintained and protected.
- (d) In those areas where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be consistent with Section 316 of the Clean Water Act.

The WQS categorize the State's surface waters as inland or marine waters. Inland waters are comprised of water body types such as streams, estuaries, lakes and reservoirs, wetlands, and anchialine pools. Marine water body types are comprised of embayments, coastal, and oceanic waters and classified into class A and AA (both bounded by 100 fathom contour or 600 foot depth contour). The specific numeric water quality criteria applicable to streams, estuaries, embayments, coastal and oceanic waters form the basis for determining whether a waterbody is meeting its intended uses.

### B.3. Special State Concerns and Recommendations

A new framework for implementing the CWA Section 303(d) Program, titled *A Long- Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program* (Vision), was announced by the EPA in December 2013. The new program vision is intended to enhance the overall efficiency of the CWA Section 303(d) Program by bringing attention to priority waters and acknowledging that states have other available options besides TMDLs to attain water quality restoration and protection (U.S. EPA 2015). While the vision does not alter the State's CWA 303(d) regulatory obligations, it allows the states the flexibility to implement its responsibilities in the context of the State's overall water quality goals.

Hawaii has begun to implement the CWA Section 303(d) Program Vision by identifying its long-term priorities through Fiscal Year 2022, and by using an integrated approach to achieve water quality goals in priority areas. The Waialeale watershed on Oahu and the Kahana, Honokahua, and Honolua watersheds in West Maui have been prioritized for restoration to address sediment and nutrient pollution. Using an integrated approach to restore impaired water bodies is consistent with elements of the vision and the State's objective to address water quality concerns through permits, TMDLs and watershed based plans. Over the next five years the State will focus its 303(d) long term priorities on addressing sediment and nutrient impairments, implementing watershed based plans to reduce polluted runoff in priority watersheds, and developing TMDLs to be implemented.

### B.4. Future Monitoring Recommendations

Future monitoring efforts will focus on collecting data for statewide watershed assessments, allowing for a more seamless integration of water body types and surrounding land use. Upcoming reports will continue to utilize State watershed delineations and other geographical attributes as the basis for identifying all waters and defining decision units within the State. Currently, the CWB is in the process of developing GIS maps for the §303(d) impaired waters

list and §305(b) water bodies for marine waters which should be available for public use via the CWB website by the 2018 IR.

## PART C. SURFACE WATER MONITORING AND ASSESSMENT OVERVIEW

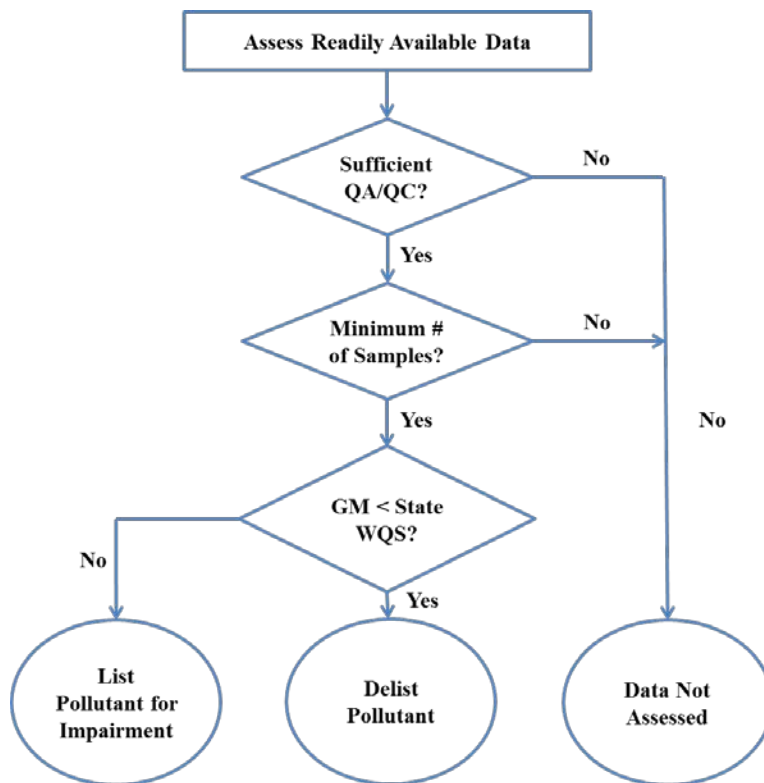
### C.1 Surface Water Monitoring and Assessment

The CWB conducts year round monitoring of surface waters throughout the state to provide data to support BEACH Act requirements, §303(d) and 305(b) assessments, TMDL development, CWA §319 watershed implementation projects. The CWB also participates in statistical survey designs as part of the National Aquatic Resource Surveys sponsored by the EPA, such as the National Reef Flat Assessment that occurred in Kaneohe Bay, Oahu in 2015. This statewide monitoring program maintains staff on Kauai, Oahu, Maui, and Hawaii.

### C.2 Assessment Methodology

State surface waters are monitored to determine if water quality conditions support public health while recreating in and on the water (recreational health) and ecosystem health. Recreational health is assessed by enumerating enterococci, the recommended EPA fecal indicator bacteria for coastal recreational waters. Ecosystem health is assessed by comparing nutrients and other parameters to the applicable water quality criteria. The nutrient parameters assessed in this report include total nitrogen (TN), nitrate+nitrite-nitrogen ( $\text{NO}_3+\text{NO}_2$ ), ammonium-nitrogen ( $\text{NH}_4$ ), total phosphorus (TP), and total dissolved nitrogen (TDN), and where applicable, total dissolved phosphorus (TDP), orthophosphate ( $\text{PO}_4$ ),  $\text{NO}_3+\text{NO}_2$  and  $\text{NH}_4$  (HAR Ch. 11-54-6(d)). Other parameters collected for assessment purposes include chlorophyll a, total suspended solids (TSS) and field parameters such as pH, temperature, turbidity, salinity and conductivity. Chapters 1 and 2 contain more detailed assessment methods specific to marine and inland waters, respectively.

Decisions for listing/delisting water bodies for nutrients, bacteria, and other parameters are based on the quality and quantity of data, water body type and applicable numeric criteria (Figure 1.). A majority of the data assessed in the 2016 IR originated from beach samples collected in near-shore coastal areas, as most of the CWB's monitoring efforts are currently focused on routine beach monitoring. There was limited inland water monitoring conducted in select watersheds. Additional sources of data considered for the 2016 IR include receiving water quality data from NPDES permitted facilities, private contractors and non- governmental organizations (NGOs) (Appendix A).



**Figure 1.** Flow chart of the listing/delisting process for enterococci, TN, NO<sub>3</sub>+NO<sub>2</sub>, NH<sub>4</sub>, TP, PO<sub>4</sub>, turbidity, TSS and chlorophyll *a*.

Assessed water bodies are then assigned to categories according to EPA's 2006 Integrated Water Quality Monitoring and Assessment Report Guidance. The attainment of WQS for one parameter but not another can result in the assignation of one or more categories to a water body.

- Category 1:** All designated uses are supported, no use is threatened;
- Category 2:** Available data and/or information indicate that some, but not all of the designated uses are supported;
- Category 3:** There is insufficient available data and/or information to make a use support determination;
- Category 4:** Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a Total Maximum Daily Load (TMDL) is not needed;
  - 4a:** A TMDL to address a specific segment/pollutant combination has been approved or established by EPA;
  - 4b:** A use impairment caused by a pollutant is being addressed by the State through other pollution control requirements;
  - 4c:** A use is impaired, but the impairment is not caused by a pollutant;
- Category 5:** Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

States are required to obtain and review all existing and readily available State surface water quality data and related information to compare against the State's numeric water quality criteria. Water bodies that attain State numeric water quality criteria are classified in either Category 1 or 2. Water bodies that do not meet State numeric water quality criteria are classified into Category 5 and constitute the CWA §303(d) list of impaired waters. A water pollution reduction plan, or TMDL, is required for water bodies that are impaired or not expected to meet State numeric water quality criteria, even after the application of technology-based effluent limitations in National Pollutant Discharge Elimination System (NPDES) permits. Water bodies that have an approved TMDL are classified into Category 4a. Previously impaired water bodies (Category 5) that currently attain State numeric water quality criteria are "delisted" and reclassified into Category 1 or 2.

## **CHAPTER 1: MARINE WATERS**

## PART A. SCOPE OF WATERS

Chapter 1 describes the assessment methodology and results applicable to marine waters as described in Hawaii's WQS, Hawaii Administrative Rules, Title 11, Chapter 54 (HAR Ch. 11-54). Marine waters are characterized according to water body type: embayments, open coastal and oceanic waters. Previous IRs included estuaries with marine waters in recognition of naturally occurring salinity fluctuations, however because estuaries are categorized as inland waters, the assessment results are reported in Chapter 2 (inland waters) for the 2016 IR. Specific numeric criteria applicable to each water body type are the basis for listing and delisting decisions.

The CWB developed an IR implementation document in response to the challenges resulting from non-uniform scopes of assessment for marine waters in previous IRs. The IR implementation document describes the change from variable scopes of assessment, which may consist of a point, stretch of coastline, or coastal waters contained between two geographical locations, to assessing waters using clearly defined watershed decision units (DUs), reducing the number of duplicate impairment listings. The assessments in the 2016 IR a) establish DUs based on CWB watersheds, b) provide the opportunity to include newly available data from additional sampling stations without creating a new scope of assessment (i.e. beach station, beach segment, etc.) in the IR and c) requires a minimum of 30 samples for IR assessment purposes.

Unlike previous IRs where multiple scopes of assessment for the same waterbody sometimes led to duplicate impairments, the watershed DU is intended to provide the means to assess the overall water quality status and identify any impairments to the waterbody per CWA requirements. These DUs also provide a geographical reference for existing IR scopes of assessment by identifying the associated CWB watershed. To maintain the integrity of previous IR assessments, the scopes of assessment in the 2014 IR are nested within the larger watershed DU implemented in this IR cycle

### A.1. Watershed Decision Units

Hawaii's topographical structure is comprised of short, small watersheds defined by steep mountain walls. Fronting marine waters are largely influenced by streams and groundwater sources located in the associated watershed. Coastal waters, especially near shore marine recreational waters, can be viewed as an extension of the watershed. The CWB has defined specific watershed DUs (referred to as CWB watershed DUs) based on a modified version of the 558 watersheds delineated by the State of Hawaii, DLNR Commission on Water Resources Management (CWRM). Water quality assessments using CWB watershed DUs consider the influence of watershed characteristics (e.g. land use, precipitation, and land-cover) on water quality downstream and in coastal areas. The largest DUs are defined for marine waters at the State watershed scale, while allowing for smaller DUs (i.e. nested scopes of assessment) to be established within the larger framework. The IR assessments are based on marine DUs bounded by State watershed delineations and distance from shoreline. Maps for the CWB DUs are currently under development and are expected to be available for the next IR cycle.



### A.1.2. Nested Scopes of Assessment

CWB watershed DUs and nested scopes of assessment are based on the water body types described in the WQS and the premise that water quality in near shore marine recreational waters is likely to be different than waters located offshore. For the purposes and consistency of the IR, nearshore recreational waters will continue to be categorized as coastal waters within 300 m of shoreline and offshore waters beyond 300 m (HAR Ch. 11-54, May 2009).

The nested scopes of assessment for the 2016 IR remain the same as in previous reports. The nested scopes of assessment consist of large stretches of coastline, smaller beach segments, individual sampling stations or multiple sampling stations. The purpose of the nested assessments is to guide pollutant source tracking.

Scopes of assessment not associated with a CWB watershed are assessed individually for attainment or impairment of pollutants for that particular water body. These scopes of assessment consist of water bodies that are beach stations or beach segments that do not have readily available geospatial information to properly locate it within the respective CWB watershed or encompass open coastal waters which are in themselves separate DUs (e.g. NPDES Zone of Mixing).

## PART B. ASSESSMENT METHODOLOGY

Decisions for listing/delisting (§303(d)) water bodies are based on the quality and quantity of data, water body type and applicable State WQS. Numerous categories may be applicable to describe the current status of a water body because each DU is assessed for multiple parameters. The attainment of WQS for one parameter but not another, can result in the assignment of one or more categories to a water body.

Data collected in State receiving waters are divided into separate assessment units (nearshore marine recreational, open coastal marine and oceanic) based on water body types described in the WQS and the premise that water quality in near shore waters is likely to be different than waters located offshore.

## B.1. Recreational Health Assessment

Recreational health is assessed by enumerating enterococci, the recommended EPA fecal indicator bacteria for marine coastal recreational waters. Bacterial evaluations using enterococcus inform both daily assessments and long term decisions (e.g. the IR) about whether public health is being protected while participating in water contact activities. The presence of enterococci in sufficient numbers “indicates the potential for human infectious diseases” as defined in the CWA §502(23) (U.S. EPA Office of Water 2012). Exceedance of the WQS for enterococci is generally thought to indicate the presence of human fecal contamination and, hence, the presence of pathogens.

Daily assessments using enterococcus are primarily used to support decisions made in the context of the BEACH Act. Recipients of BEACH Act grant funds, such as Hawaii, are required to notify the public when enterococcus levels either exceed or are likely to exceed the applicable water quality standards at specific beach locations. Daily assessments apply to specific beach locations, and not watershed decision units. In Hawaii, the public must be notified when the enterococcus concentrations in any given sample are at or above 130 colony forming units (CFUs)/ 100mL of water.

The long term decisions captured in IR assessments are based on monthly geometric means calculated from data collected from the watershed decision unit over a two year time. Because the intent of the IR is to document water quality conditions across the state for longer time spans, recreational health assessments for the IR use watershed DUs as the basis for attainment decisions where possible. For IR purposes a watershed DU is considered impaired if more than 10% of total samples exceeded the STV value of 130 CFU/100 mL (Table 1).

Revisions to the recreational criteria for all state waters (HAR Ch. 11-54-8, Nov 2014) changed the enterococcus geometric mean (GM) criteria from not exceeding 35 CFU/100 mL in not less than five samples which shall be spaced to cover a period between 25 and 30 days, to not exceeding 35 CFU/100 mL over any 30-day interval. The 2014 WQS revision also replaced the single sample maximum value of 104 CFU/100 mL with the statistical threshold value (STV) of 130 CFU/100 mL. The STV is the value which shall not be exceeded by more than 10% of the samples taken within the same 30-day interval in which the GM is calculated. These revisions are consistent with the EPA’s 2012 Recreational Water Quality Criteria (U.S. EPA Office of Water 2012).

**Table 1.** Enterococci recreational WQS attainment/non-attainment based on frequency, GM and STV.

Frequency	Recreational WQS Attained	Recreational WQS Not Attained (Impaired)
30-day interval	$GM \leq 35 \text{ CFU/100 mL}$	$GM > 35 \text{ CFU/100 mL}$
30-day interval	10% or less of total samples $\leq 130 \text{ CFU/100 mL}$	More than 10% of total samples $> 130 \text{ CFU/100 mL}$

## B.2. Ecosystem Health Assessment

Ecosystem health assessments are based on a geometric mean calculation of the nutrient and field parameters identified in HAR §11-54-6. Assessments require a minimum of 30 samples to

be collected from State receiving waters within the CWB watershed DU over a two year assessment cycle. The 30 samples may come from multiple stations located within the larger CWB watershed DU and should be representative of seasonal variation where possible. The GM calculation and comparison to nutrient WQS will remain consistent with the 2014 IR. In contrast to the monthly GM used to assess recreational health, ecosystem health assessment is based on one calculated GM for the two year period. In addition, nutrient WQS vary depending on marine water body type, whereas bacterial WQS remain the same for all marine waters (Table 2). For marine waters where transect data are available at multiple depths, data are grouped according to distance from shoreline and combined for assessment decisions.

**Table 2.** Applicable water body type and WQS for marine water bodies

<b>Water Body Type</b>	<b>Description</b>	<b>Recreational WQS</b>	<b>Nutrient WQS</b>
Embayments	As defined in §11-54-6	HAR §11-54-8	Embayment, HAR Ch. 11-54-6 (a)
Near Shore Marine Recreational Waters	Shoreline to 300 m offshore	HAR §11-54-8	Open Coastal, HAR Ch. 11-54-6 (b)
Open Coastal Marine Waters	300 m offshore to 183 m (600 ft) depth contour	HAR §11-54-8	Open Coastal, HAR Ch. 11-54-6 (b)
Oceanic Waters	183 m (600 ft) depth contour to 3 miles offshore	HAR §11-54-8	Oceanic, HAR Ch. 11-54-6 (c)

### B.3. Water Body ID (*formally* Geocode ID)

Two sets of codes exist in the Hawaii structure: a 2-letter alphanumeric (HI) set and 3-letter alphanumeric (HIW) set. The numeric portion of both codes is preceded by the State abbreviation (HI) as per EPA protocol. The 2-letter code is from an existing structure of the EPA's Beaches Environmental Assessment and Coastal Health (BEACH) program that identifies recreational waters across the State. The 3-letter code is generated in response to areas where BEACH codes do not exist and areas that are divided into small subsections. Each code is comprised of a total of eight characters and is not ordered. Marine geocode IDs listed in previous IRs have been renamed to water body ID in the 2016 IR because they serve as an internal unique identifier and do not relate to geospatial information. Currently, GIS maps for the §303(d) impaired waters list and §305(b) water bodies for marine waters are under development and should be available for public use via the CWB website by the 2018 IR.

### B.4. Data Sources

A formal call for data was announced early in 2015 and closed in November 2015. Marine water quality data collected between November 2013 and October 2015 are assessed in this report. Sources of data assessed in this report originated from NPDES permitted facilities, private consulting firms, and routine and special sampling conducted by the CWB or partnering entities (Appendix A). New, readily available data that meet the CWB's QA/QC requirements are considered for assessment in the 2016 IR.

#### B.4.1. Quality Assurance/Quality Control

The CWB Monitoring and Analysis Section Quality Assurance/Quality Control (QA/QC) is governed by the CWB Beach Monitoring Quality Assurance Project Plan (QAPP) and the

Coastal Chemistry Monitoring QAPP. In addition to the CWB QAPPs, the data quality necessary for assessment purposes are specified in the Clean Water Branch Quality Assurance Program Plan (CWB QAPrgP) and the Environmental Management Division Quality Management Plan (EMD QMP), which were approved by EPA Region IX on May 15, 2013 and November 15, 2013, respectively. Other data submitted from sources outside the HDOH are evaluated for conformance with the CWB QAPrgP and the EMD QMP.

#### B.4.2. Laboratory Analytical Support

The HDOH uses three Hawaii-based laboratories for analysis of samples: the Environmental Health Analytical Services Branch (EHASB) of the State Laboratories Division (SLD), the Natural Energy Laboratory of Hawaii Authority (NELHA), and Microbiology Consulting Services, LLC (MCS). The State maintains microbiology laboratories on the four largest islands (Kauai, Oahu, Maui and Hawaii), which conduct bacterial analysis for their respective islands, with the exception of West Hawaii. MCS has analyzed bacterial samples for West Hawaii since July 2007. The EHASB analyzes bacterial samples collected by HDOH personnel on Oahu and chemical samples collected by HDOH personnel on Kauai, Oahu, Maui and Hawaii.

#### B.4.3. Data Storage, Management and Sharing

The CWB bacterial dataset extends from 1973 to the present, and the nutrient and biogeochemistry dataset extends from 2006 to the present. Water quality data currently generated from CWB coastal monitoring is available on the CWB's website and EPA's STORage and RETrieval (STORET) database. The STORET database contains all post-1999 sampling data from the CWB's fixed network of routine monitoring stations. Data collected before 1999 are stored in the Legacy STORET Database. The end-users of the STORET database system include government agencies, consultants, students and the general public.

### PART C. RESULTS

#### C.1. Coastal Watershed Assessment Results

##### *Statewide*

Approximately 558 watersheds are established statewide, and of those 558 watersheds, 544 are coastal. Based on new, readily available water quality data, 44 coastal watersheds on Kauai, Oahu, Lanai and Maui are assessed in this report. Hawaii Island is not included in the watershed assessment because its water bodies have not been organized into their respective watersheds. Watershed assessments for Hawaii Island will be available in the 2018 IR. Of the 44 coastal watersheds assessed, 40 do not attain State WQS for at least one or more conventional pollutants. It should be noted that not all parameters are assessed for every water body due to unavailability of new data.

Similar to the 2014 IR, turbidity WQS continue to be exceeded most frequently (98% of assessed watersheds), followed by nutrients (42%) across the state. Although nutrients (at least one or more) are the second most common pollutant to initiate a new impairment (Category 5 designation), 58% of the watersheds assessed attain nutrient WQS. Similar to nutrients, most (83%) assessed coastal watersheds attain chlorophyll *a* WQS. Attainment of recreational health standards is observed in 98% of watersheds assessed (Table 3).

**Table 3.** Assessed watershed attainment (A) and non-attainment (N) of WQS for pollutants summarized by island. -- = not assessed.

Island	Total Assessed Watersheds	Bacteria		Nutrients		Turbidity		Chlorophyll <i>a</i>	
		A	N	A	N	A	N	A	N
Kauai	11	10	0	5	3	0	10	2	0
Oahu	21	21	0	3	1	0	18	1	0
Molokai	--	--	--	--	--	--	--	--	--
Lanai	1	--	--	4	0	1	0	1	0
Maui	11	10	1	2	6	0	11	1	1
Hawaii	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>44</b>	<b>41</b>	<b>1</b>	<b>14</b>	<b>10</b>	<b>1</b>	<b>39</b>	<b>5</b>	<b>1</b>

The most common pollutant to trigger a marine §303(d) listing is turbidity, resulting in 39 impairments statewide (Table 3). Turbidity is the sole cause of a new impairment in 90% of the watersheds assessed (Table 11, Appendix B).

#### *By Island*

Kauai, Oahu and Maui show the highest percentage of turbidity impairments (100%) in assessed watersheds. The majority of assessed coastal watersheds on Kauai, Oahu, and Lanai attain WQS for nutrients (63%, 75%, and 100%, respectively), while 75% of Maui's assessed coastal watersheds do not attain nutrient WQS. Attainment of chlorophyll *a* WQS is observed in all assessed watersheds on Kauai, Oahu and Lanai, while only 50% of assessed Maui watersheds attain for chlorophyll *a*. Attainment of bacterial WQS account for over 98% of watersheds assessed on Kauai, Oahu and Maui (100%, 100% and 91%, respectively) (Table 3).

### C.2. Marine Waterbody Assessment Results

#### *Statewide*

Marine water bodies that have yet to be placed in a watershed but had new, readily available data are also assessed in this report. Out of the 55 marine water bodies assessed, 50 do not attain WQS for at least one or more conventional pollutants. It should be noted that not all parameters are assessed for every water body due to unavailability of new data.

Across the state, chlorophyll *a* WQS are exceeded most frequently (60%), followed by turbidity (50%) and nutrients (29%) in assessed marine water bodies. Attainment of recreational health standards is observed in 96% of water body assessments (Table 4).

**Table 4.** Assessed marine water body attainment (A) and non-attainment (N) of WQS for pollutants summarized by island. -- = not assessed. Marine water bodies not associated with watershed.

Island	Total Assessed Water Bodies	Bacteria		Nutrients		Turbidity		Chlorophyll <i>a</i>	
		A	N	A	N	A	N	A	N
Kauai	4	1	0	13	3	2	0	0	3
Oahu	15	5	0	52	3	12	1	4	9
Molokai	--	--	--	--	--	--	--	--	--
Lanai	1	--	--	3	1	0	1	0	1
Maui	5	--	--	8	12	2	2	1	4
Hawaii	30	17	1	25	22	9	21	9	4
<b>Total</b>	<b>55</b>	<b>23</b>	<b>1</b>	<b>101</b>	<b>41</b>	<b>25</b>	<b>25</b>	<b>14</b>	<b>21</b>

Chlorophyll *a* is the most common pollutant to trigger a marine §303(d) listing, resulting in 60% marine water body impairments statewide (Table 4). Chlorophyll *a* and/or nutrients (at least one or more) are the main causes of new water quality impairments in 18% of marine water body assessments (Table 12, Appendix C).

#### *By Island*

Assessed marine water bodies on Kauai, Oahu, Lanai, and Hawaii have the highest attainment of nutrient WQS (81%, 95%, 75%, and 53%, respectively), while only 40% of Maui's assessed marine waterbodies attain numeric WQS for at least one or more nutrients. On Kauai, Oahu, and Maui, 100%, 92%, and 50% of assessed water bodies attain turbidity WQS, respectively. Assessed water bodies on Lanai and Hawaii indicate non-attainment of turbidity WQS (100% and 70%, respectively). Attainment of chlorophyll *a* WQS is identified in 69% of marine water bodies assessed on Hawaii. Most of the assessed water bodies on Kauai, Oahu, Lanai, and Maui do not attain chlorophyll *a* WQS (100%, 69%, 100%, and 80%, respectively). Attainment of bacterial WQS accounts for over 96% of marine water bodies assessed on Kauai, Oahu, and Hawaii (100%, 100%, and 94%, respectively) (Table 4).

### C.3. Assessment Results Summary

The 2016 IR continues to implement a multi-category listing method (Category 1-5) to characterize current water quality status (e.g. new impairment listing, delisting, etc.) across the State. All changes that have occurred since the previous listing cycle (2014 IR) as a result of new data analysis are documented (Table 5). The following table details how a marine water body or watershed is assigned a different numerical category and includes reasons for those changes. Overall, there were 104 listings and 23 delistings for pollutants for the 2016 IR assessment cycle (Table 5).

**Table 5.** Category changes from the 2014 listed marine water bodies that identify pollutants where a change has occurred (e.g. new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen; TDN=total dissolved nitrogen; NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen; NH<sub>4</sub>=ammonia-nitrogen; TP=total phosphorus; TDP=total dissolved phosphorus; PO<sub>4</sub>=orthophosphate; Turbidity; Chl *a*=chlorophyll *a*. Summary rationale codes: NND=new numerical data; NL=new impairment listing (assign category 5); DL=delisting (category change from 5 to 2; A2=assign category 2; category change from 3 to 2; CC=change wet/dry criteria; C to B=change from coastal to embayment water body type; K to B=change from Kona to embayment water body type; B to C=change from embayment to coastal water body type; E to C=change from estuary to coastal water body type. \*Nested IR scopes of assessment within CWB Watershed Decision Unit. Marine waters are sorted by island, north to south.

KAUAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Hanalei Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Hanapepe Watershed	TBD	TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Chl <i>a</i>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
Kalihiwai Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.

KAUAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Kalihiwai Bay (Kalihiwai Watershed)	HI264001	Enterococcus	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Kapaa Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Kealia (Kapaa Watershed)	HI402035	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Kikiaola Beach (Kapilimao Watershed)	HI119207	Water Body Type	Change water body type	B to C	Assessment of new geospatial data supports change in water body type from embayment to coastal. Water body is not located within an embayment specified in HAR 11-54, Appendix C.
Kaumakani Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5
Kawailoa Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Limahuli Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.



KAUAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Shipwreck Beach (Mahaulepu Watershed)	HI358435	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Manoa Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Nawiliwili Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.

		Chl <i>a</i>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
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KAUAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Waipouli Beach (Waikaea Watershed)	HI682678	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Waikomo Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Princeville (Waileia Watershed)	HI520271	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Hanalei Bay which is specified as an embayment in HAR 11-54, Appendix C.
Waioli Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Mana Point	HIW00184	TN	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

KAUAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Pacific Missile Range Facility (Open Coastal)	TBD	TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Wahiawa Bay	HIW00121	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. HAR 11-54, Appendix C specifies waterbody as embayment.
Wailua (Open Coastal)	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NH <sub>4</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.

KAUAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Wailua (Open Coastal)	TBD	TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Ala Wai Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Anahulu Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Waialua Bay (Anahulu Watershed)	HI451176	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Hanauma Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kaelepulu Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Lanikai Beach (Kaelepulu Watershed)	HI596989	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kaloï Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kahawai Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kamaileunu Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
Kaupuni Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Pokai Bay (Kaupuni Watershed)	HIW00007	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Waianae Regional Park (Kaupuni Watershed)	HI668527	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Pokai Bay which is specified as an embayment in HAR 11-54, Appendix C.
Kawainui Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Keamanea Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Koko Crater Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kualoa Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Paiko Lagoon (Kuliouou Watershed)	HI598745	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Paiko Peninsula to Koko Head which is specified as an embayment in HAR 11-54, Appendix C.
Ma'ili Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Ma'ili Beach Park (Ma'ili Watershed)	HI627464	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.



OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Makaha Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Makaiwa Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Ihilani Honu Lagoon (Makaiwa Watershed)	HI815093	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Ko Olina which is specified as an embayment in HAR 11-54, Appendix C.
*Ihilani Kohola Lagoon (Makaiwa Watershed)	HI515191	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Ko Olina which is specified as an embayment in HAR 11-54, Appendix C.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Ihilani Naia Lagoon (Makaiwa Watershed)	HI685981	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Ko Olina which is specified as an embayment in HAR 11-54, Appendix C.
*Ihilani Ulua Lagoon	HI550240	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Ko Olina which is specified as an embayment in HAR 11-54, Appendix C.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Makapuu Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Nanakuli Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Nanakuli Beach Park (Nanakuli Watershed)	HI467413	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Nuuanu Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
Paumalu Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Waimanalo Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Waimanalo Watershed	TBD	NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Chl <i>a</i>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
*Bellows Field Beach Co. Park (N. Runway) (Waimanalo Watershed)	HI7988011	Enterococcus	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Chl <i>a</i>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Waimea Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Campbell Industrial	HIW00187	NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Kahe Point (Open Coastal)	TBD	TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NH <sub>4</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
Kailua Bay (Open Coastal)	HIW00194	NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Mamala Bay (Fort Kamehameha Offshore)	HIW00190	Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Ocean Pointe C	HIW00132	Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Ocean Pointe Control	HIW00129	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Ocean Pointe E	HIW00130	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Ocean Pointe W	HIW00131	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Ocean Pointe KA	HIW00210	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Ocean Pointe PR	HIW00211	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Pokai Bay (Open Coastal)	HIW00018	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Sandy Beach (Open Coastal)	HIW00191	NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.

LANAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Kaluakoi Point to Huawai Bay (Anapuka Watershed)	HIW00135	NH <sub>4</sub>	Delist Pollutant	NND, NL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Manele Watershed	TBD	TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NH <sub>4</sub>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Chl <i>a</i>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
*Hulupoe Bay (Manele Watershed)	HIW00177	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Hapapa Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Honokahua Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Fleming Beach North (Honokahua Watershed)	HI253548	TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
*Oneloa Bay Beach (Honokahua Watershed)	HI740710	TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Oneloa Bay Beach (Honokahua Watershed)	HI740710	TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Honokowai Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*West Maui Coast-S-Turns (Pohaku) (Honokowai Watershed)	HIW00047	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Honolua Watershed	TBD	Enterococcus	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Honolua Bay (Honolua Watershed)	HI280286	Enterococcus	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.



MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Honolua Bay (Honolua Watershed)	HI280286	TN	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Mokule'ia Beach (Honolua Watershed)	HI977299	TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Iao Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Hata's (Iao Watershed)	HI553820	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Kahului Bay which is specified as an embayment in HAR 11-54, Appendix C.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Kahana Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		TN	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Kapalua (Fleming's Beach) (Kahana Watershed)	HI391006	TP	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
*Napili Bay (Kahana Watershed)	HI764060	TP	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kailua Gulch Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Kailua Gulch Watershed	TBD	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Kanaha Beach (Kaa Shoreline) (Kalialinui Watershed)	HIW00020	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Kahului Bay which is specified as an embayment in HAR 11-54, Appendix C.
Launiupoko Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Pohakea Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
*Ma'alaea Beach (Pohakea Watershed)	HI058731	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Ma'alaea Boat Harbor which is specified as an embayment in HAR 11-54, Appendix C.
Wahikuli Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Wahikuli Watershed	TBD	NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Chl <i>a</i>		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
*Hanaka'o'o Beach Co. Park (Wahikuli Watershed)	HI797917	Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from dry to wet.
		TP	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
*Kaanapali (Kahekili Beach) (Wahikuli Watershed)	HI643627	NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
*Kaanapali (Sheraton Kaanapali Shoreline) (Wahikuli Watershed)	HIW00022	Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from dry to wet.
		TN		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Chl <i>a</i>	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Wailea Watershed	TBD	Enterococcus		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kahului Bay	HIW00105	Water Body Type	Change water body type	C to B	Assessment of new geospatial data supports change in water body type from coastal to embayment. Water body is located within Kahului Bay which is specified as an embayment in HAR 11-54, Appendix C.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from dry to wet.
		TN	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Kahului Bay	HIW00105	NH <sub>4</sub>	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		TP	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Makena Landing-Malu'aka Beach	HIW00142	Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Oneloa Beach (Big Beach)-Ahihi-Kinau	HIW00144	NH <sub>4</sub>	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Oneuli Beach	HI756040	TP	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

MAUI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Poolenalena-Makena Landing	HIW00143	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

HAWAII (BIG ISLAND)					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Anaehoomalu Bay	HI326172	Water Body Type	Change water body type	K to B	Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is specified as an embayment in HAR 11-54, Appendix B.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to dry.
Analani Pond (Puala'a)	HI707059	Enterococcus	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Honaunau Bay (2 Step)	HI246645	Water Body Type	Change water body type	K to B	Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is specified as an embayment in HAR 11-54, Appendix B.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to wet.
James Keahole Park	HI670254	Water Body Type	Change water body type	E to C	Assessment of new geospatial data supports change in water body type from estuary to coastal.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to wet.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Kahuwai Bay-Mano Point	HIW00153	Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Kamakaokahonu (Kailua Pier A-1)	HI261474	Water Body Type	Change water body type	K to B	Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Kailua Harbor which is specified as an embayment in HAR 11-54, Appendix B.



HAWAII (BIG ISLAND)					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Kamakaokahonu (Kailua Pier A-1)	HI261474	Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to wet.
		Turbidity	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Kauilii Point-Kapaa Beach Park	HIW00201	NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Keahole Point	HIW00203	NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		TP	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Kealakekua Bay	HIW00149	NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Keauhou Bay (Kona)	HI713293	Water Body Type	Change water body type	K to B	Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is specified as an embayment in HAR 11-54, Appendix C.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to dry.
Keone'ele Cove	HI559410	Water Body Type	Change water body type	K to B	Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Honaunau Bay which is specified as an embayment in HAR 11-54, Appendix B.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to wet.

HAWAII (BIG ISLAND)					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Mahukona Harbor	HIW00197	TP	Delist Pollutant	NND, DL	<b>DELIST cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Manini Point Co. Park	HI379964	Water Body Type	Change water body type	K to B	Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Kealakekua Bay which is specified as an embayment in HAR 11-54, Appendix B.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to dry.
Paaao Point to Keawekaheka Point	HIW00145	PO <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Pu'u'honua o Honaunau	HI478461	Water Body Type	Change water body type	K to B	Assessment of new geospatial data supports change in water body type from Kona to embayment. Water body is located in Honaunau Bay which is specified as an embayment in HAR 11-54, Appendix B.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to wet.
Radio Bay	HI425303	Water Body Type	Change water body type	E to C	Assessment of new geospatial data supports change in water body type from estuary to coastal.
		Wet/Dry Criteria	Change Criteria	CC	Assessment of new data supports change in criteria from NA to wet.
Waiulua Bay to Anaehoomalu Bay	HIW00148	Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

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## **CHAPTER 2: INLAND WATERS**

## PART A. SCOPE OF WATERS

Chapter 2 of the 2016 IR covers all inland waters. Attainment decision units for the 2016 IR remain the same as in previous IRs. Inland freshwaters are partitioned by type according to the HAR Ch. 11-54. Estuaries, which are classified as inland waters, have been reorganized in this report's §303(d) and §305(b) assessments (Chapter 3) and now exist under inland waters rather than marine waters. Estuaries are characteristically brackish coastal waters, which HAR Ch. 11-54 defines as waters with salinity greater than 0.5 ppt but less than 32 ppt.

## PART B. MONITORING AND ASSESSMENT

### B.1. Basic Attainment Decision Unit

The basic (Tier I) attainment decision unit (ADU or decision unit) for Hawaii's inland freshwaters is the entire network of hydrologically connected freshwater segments associated with a single listed stream, stream segment, or stream tributary. These freshwater segments and ADUs can include one or more water body type as defined by HAR Ch. 11-54, including, but not limited to, intermittent streams, reservoirs, and wetlands (Table 6).

**Table 6.** Applicable water quality criteria and decision unit boundaries for inland freshwater bodies.

<b>Water Body Type<sup>1</sup></b>	<b>Applicable Water Quality Criteria<sup>2</sup></b>	<b>Decision Unit Boundary<sup>3</sup></b>
Flowing Seep	Basic/Recreational	Flowpath/Flow Surface
Flowing Spring	Basic/Recreational	Flowpath/Flow Surface
Elevated Wetland	Basic/Recreational/Wetland	1987 Corps Delineation <sup>4</sup>
Low Wetland	Basic/Recreational	1987 Corps Delineation <sup>4</sup>
Intermittent Stream	Basic/Recreational/Water Column/Bottom	Entire Network or Sub-network <sup>5</sup>
Perennial Stream	Basic/Recreational/Water Column/Bottom	Entire Network or Sub-network <sup>5</sup>
Natural Freshwater Lake	Basic/Recreational	Lake
Freshwater Impoundment <sup>6</sup>	Basic/Recreational	Impoundment
Reservoir	Basic/Recreational	Reservoir
Ditch	Basic/Recreational	Ditch
Flume	Basic/Recreational	Flume
Drainage Ditch <sup>7</sup>	Basic/Recreational	Drainage Ditch
Canal <sup>7</sup>	Basic/Recreational	Canal

<sup>1</sup>HAR Ch. 11-54-1 inland freshwater water body types; these definitions are applied to the definition of decision units. <sup>2</sup>HAR Ch. 11-54-4 basic water quality criteria applicable to all waters; HAR Ch. 11-54-8(a) specific criteria for inland recreational waters; HAR Ch. 11-54-5.2(b) specific criteria for stream water column; HAR Ch. 11-54-5.2(b)(2) bottom criteria for streams; HAR Ch. 11-54-5.2(c) specific criteria for elevated wetlands. <sup>3</sup>HAR Ch. 11-54-5.1(a) establishes a system of water body classification and associated designated uses. <sup>4</sup>HAR Ch. 11-54-1 "...the identification and delineation of wetland boundaries shall be done following the procedures described in the U.S. Army Corps of Engineers' Wetland Delineation Manual (USACE 1987)." <sup>5</sup>HAR Ch. 11-54-1 "Stream system" means the aggregate of water features comprising or associated with a stream, including the stream itself and its tributaries, headwaters, ponds, wetlands, and estuary. A stream system is geographically delimited by the boundaries of its drainage basin or watershed. For stream attainment decision purposes, "associated" is interpreted as "hydrologically connected" and estuaries, ditches, flumes, drainage ditches, and canals are not included in the assessment. <sup>6</sup>This water body type is not defined by rule but is included in the definition of "Standing waters." This water body type is not defined by rule but is included in the definition of "State waters."

### B.1.1. Tiered Approach

A tiered approach, linked with the assessment decision criteria first adopted in Hawaii's 2002 §303(d) list of impaired waters, was used in past assessments to refine decision units for inland freshwater stream networks. Tier I ADUs are used for initial attainment decisions as governed by the current §303(d) listing criteria and for defining the geographic scope of "legacy" listings based on visual assessments. Tier II ADUs encompass segments and partial segments that can be more narrowly defined and assessed based on existing monitoring locations, data, and boundaries between water body types, and are used for attainment decisions on a case-by-case basis. Tier III ADUs are established for TMDL development and other intensive monitoring and analysis purposes. Tier IV ADUs are part of Tier III decision units and defined based on the most detailed assessment information.

### B.1.2. Decision Unit Rationale and Implementation

HIDOH's current focus on defining ADUs for inland freshwaters is based on:

- (a) An assumption that streams are the most widespread and important inland freshwater body type to assess for achieving marine water quality goals;
- (b) The lack of numeric water quality standards criteria for conventional chemical and physical pollutants in most other freshwater body types;
- (c) The unavailability of a complete water body inventory and present limitations for monitoring and assessing all water bodies, water quality criteria, and use attainment within each water body type.

ADUs for inland freshwaters do not include marine waters, inland brackish or saline waters, such as estuaries and anchialine pools. Decision unit boundaries for other inland freshwater body types are defined on a case-by-case basis when monitoring data and other assessment information is available, but generally encompass the entire water body.

### B.1.3. Application of Criteria to Attainment Decisions

The §303(d) list of impaired waters applies to the entire inland freshwater portion of a stream system, including all hydrologically connected reaches, unless a case is documented in which smaller decision units are justified. The same method also applies to other water body types.

The HIDOH recommends non-HIDOH entities conducting similar monitoring, analysis, and planning activities to consult with HIDOH about sampling designs and information management protocols that will facilitate HIDOH's ability to use secondary data for attainment decisions. The entire hydrologic network within a watershed is the largest possible decision unit for inland freshwater bodies, and may include the boundaries of the following water body types as defined by HAR Ch. 11-54-1.

HIDOH encourages monitoring, analysis, and planning activities that acknowledge and consider the regulatory boundaries between specific water body types and demonstrate a rationale for segmenting each water body into smaller decision units. The EPA's 2006 IR Guidance (U.S. EPA Watershed Branch 2005) provides a summary of factors to consider in developing these rationales.

## B.2. Quality Assurance/Quality Control

The data quality necessary for assessment purposes are specified in the CWB QAPrgP, which was approved by EPA Region IX on May 15, 2013, and the EMD QMP, which was approved by EPA Region IX on November 15, 2013. Other data submitted from sources outside the HIDOH are evaluated for conformance with the CWB QAPrgP and the EMD QMP.

## B.3. Assessment Methodology

Standardized criteria enable HIDOH to periodically collect and assess datasets for water body evaluations. Datasets and supporting documentation are evaluated against numeric water quality criteria, henceforth referred to as WQS, where applicable, for listing/delisting decisions. New, readily available data that meet the CWB's QA/QC and data submittal requirements (including a minimum of 10 samples per wet and dry season) are considered for assessment in the 2016 IR.

The WQS described in HAR Ch. 11-54 for recreational, nutrient and biogeochemical parameters in inland freshwaters are divided into "wet" (November through April) and "dry" (May through October) season criteria. This is in contrast to the "wet" and "dry" WQS applicable in marine waters, which are dependent on the amount of freshwater discharge per shoreline mile. Water quality standards for estuaries are not divided into "wet" and "dry" seasons.

Similar to marine waters, enterococci are the indicator bacteria used to evaluate recreational health in inland waters, while nutrients (TN, NO<sub>3</sub>+NO<sub>2</sub>, NH<sub>4</sub> and TP) and biogeochemical parameters (TSS, turbidity and chlorophyll *a*) are used to determine ecosystem health.

Decisions for listing/delisting (§303(d)) conventional pollutants for inland waters follow the same protocol as marine waters (Figure 1). For the 2016 IR, inland waters follow the same assessment methodology as marine waters for recreational and ecosystem health water quality assessment, with the exception of the CWB watershed DU boundaries and 30 minimum sample size. Similar to marine waters, nutrient WQS vary depending on water body type, whereas bacterial WQS remain the same for all marine waters (Table 7).

**Table 7.** Applicable water body type and WQS for inland water bodies.

Water Body Type	Description	Recreational WQS	Nutrient WQS
Estuaries	As defined in HAR Ch. 11-54-1	HAR Ch. 11-54-8	Estuary, HAR Ch. 11-54-5.2(d)(1)
Streams	As defined in HAR Ch. 11-54-1	HAR Ch. 11-54-8	Embayment, HAR Ch. 11-54-5.2(b)

For toxic pollutants, such as pesticides and heavy metals, which often require expensive analyses, a minimum sample size of three is required for assessment. Toxic pollutants for inland freshwaters are characterized by acute and chronic concentration criteria and fish consumption criteria.

Biological surveys of aquatic communities, fish consumption advisories and reports of contaminated sediments are also eligible sources of listing information. Datasets for evaluation



of narrative criteria must include at least three sampling events and represent conditions in wet and dry seasons. These narrative criteria may be evaluated using HDOH-approved habitat or biological assessment methodologies as long as they can be directly correlated to specific narrative criteria in HAR Ch. 11-54-4. Also, in accordance with HAR Ch. 11-54-4(b)(2)(A), acute toxicity standards for the contamination of sediment may be evaluated using broadly accepted standards such as those developed in Canada and New York (CCME 1999; NYSDEC 1999), provided that HDOH deems them appropriate for use in Hawaii.

### B.3.1. Water Body ID (*formally* Geocode ID)

Numerous conventions for naming and coding Hawaii's water bodies and decision unit boundaries have been designed and used over time. Building a comprehensive statewide water body inventory that standardizes these conventions for use by HDOH and others is an ongoing intergovernmental resource management task. Geocode ID (or water body identification) for inland freshwater decision units are based on the Hawaii Stream Assessment (HSA) Coding System (Hawaii Cooperative Park Service Unit 1990) with some modifications, as noted in the 2006 IR. Similar to marine waters, geocode IDs for inland waters have been renamed to water body ID in the 2016 IR because they serve as an internal unique identifier and do not relate to geospatial information. Development of GIS maps for the §303(d) impaired waters list and §305(b) water bodies for inland waters will coincide with the development of the standardized assessment methodology for inland waters and therefore come at a later date.

### B.4. Inland Waters Assessment Results

Six inland freshwater bodies and six estuaries are assessed in this report: Waipili Stream (Kauai) (wet season) and Ahuimanu Stream, Heeia Stream, Kahaluu Stream, Waiahole Stream and Waihee Stream (Oahu(wet and dry seasons). Estuaries (Hanalei River (end of Weke Road) (Kauai); Kahaluu, Iroquois Point and Pearl Harbor (Oahu); Keahukaha Beach Park and Leleiwi Beach Co. Park (Richardson Ocean Center) (Big Island)) have only one set of numeric WQS and therefore are not compared between a wet and dry season.

#### ***Streams Wet Season***

##### *Kauai*

Waipili Stream is a new impairment listing in the 2016 IR. It exceeds wet season WQS for bacteria and turbidity (Table 8). There were insufficient data to make assessments during the dry season.

##### *Oahu*

Ahuimanu Stream was initially listed as visually impaired for turbidity in the 2006 IR. Based on newly assessed numerical data, turbidity continues to exceed wet season WQS. Enterococcus is a new pollutant assessed for this water body in the 2016 IR. Enterococcus concentrations for Ahuimanu Stream indicate non-attainment of recreational WQS (Table 8).

Heeia Stream initially exceeded wet season WQS for  $\text{NO}_3 + \text{NO}_2$  in the 2004 IR, and based on newly assessed data continues to exceed wet season WQS for  $\text{NO}_3 + \text{NO}_2$ . Total nitrogen and TSS concentrations in Heeia Stream indicate current attainment of WQS, as in previous IRs. Heeia Stream was initially listed for turbidity impairment in the 2006 IR and for TP impairment

in the 2014 IR. Currently, Heeia Stream attains wet season turbidity and TP WQS, resulting in a delisting of Heeia Stream for both pollutants (Table 8).

Kahaluu Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant. Kahaluu Stream was initially listed visually impaired for turbidity prior to the 2002 IR, but currently attains wet season turbidity WQS, resulting in a delisting of Kahaluu Stream for this pollutant (Table 8).

Waiahole Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant (Table 8). Waiahole Stream attained turbidity WQS in the 2006 IR, and it continues to attain turbidity WQS.

Waihee Stream exceeds enterococcus recreational WQS, resulting in a new listing (Table 8). Turbidity is a new pollutant assessed for Waihee Stream in the 2016 IR, and Waihee Stream currently attains turbidity WQS.

### ***Streams Dry Season***

#### ***Oahu***

Ahuimanu Stream was initially listed as visually impaired for turbidity in the 2006 IR. Based on newly assessed numerical data, Ahuimanu Stream continues to exceed dry season turbidity WQS. Ahuimanu Stream also indicates non-attainment of recreational WQS with enterococcus being a new pollutant in the 2016 IR (Table 8).

Heeia Stream was initially listed as impaired for TN and  $\text{NO}_3 + \text{NO}_2$  during the dry season in the 2006 IR. In the 2014 IR, Heeia Stream attained dry season TN WQS, resulting in a delisting for this pollutant. Currently, Heeia Stream does not attain dry season TN WQS, resulting in a listing for this pollutant (Table 8). Heeia Stream continues to exceed dry season  $\text{NO}_3 + \text{NO}_2$  WQS, as it did in previous IRs. It continues to attain dry season TP, turbidity, and TSS WQS, as in previous IRs.

Kahaluu Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant (Table 8). Turbidity, initially listed impaired in the 2006 IR continues to exceed dry season WQS.

Waiahole Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant. Waiahole Stream attained turbidity WQS in the 2006 IR, but now exceeds turbidity WQS, resulting in a listing for this pollutant (Table 8).

Waihee Stream exceeds enterococcus recreational WQS, resulting in a new listing for this pollutant (Table 8). Waihee Stream was listed as impaired for turbidity in the 2006 IR and continues to exceed turbidity WQS.

### ***Estuaries***

#### ***Kauai***

Hanalei River (end of Weke Road) estuary was initially listed as impaired for enterococcus prior to the 2002 IR and for turbidity in the 2004 IR. TMDLs for enterococcus and turbidity were

approved in 2008. Newly assessed numerical data indicate Hanalei River estuary continues to not attain WQS for enterococcus and turbidity.

#### *Oahu*

Kahaluu estuary was initially listed as visually impaired for turbidity in the 2006 IR. Newly assessed numerical data show Kahaluu estuary still exceeds WQS for turbidity. Kahaluu estuary does not attain recreational WQS Enterococcus is a new pollutant assessed for this waterbody, Kahaluu estuary (Table 8).

Iroquois Point (located in Pearl Harbor estuary) was initially assessed in the 2012 IR and attained WQS for enterococcus. Newly assessed numerical data indicate this water body continues to attain WQS for enterococcus.

Pearl Harbor estuary was listed as impaired for turbidity prior to the 2002 IR and continued to be listed until the 2012 IR, in which it became delisted and attained WQS for turbidity. Newly assessed numerical data indicate this water body continues to attain standards for turbidity.

#### *Big Island*

Keaukaha Beach Park was initially assessed in the 2006 IR and attained WQS for enterococcus. Newly assessed numerical data indicate this water body continues to attain standards for enterococcus.

Leleiwi Beach Co. Park (Richardson Ocean Center) was initially listed as impaired for turbidity prior to the 2002 IR and continued to be until the 2014 IR, in which it became delisted and attained turbidity WQS. However, newly assessed numerical data indicates that this water body no longer meets turbidity WQS, and therefore it is again listed as impaired for turbidity. Newly assessed numerical data indicate that this water body continues to attain enterococcus WQS, which it has since the 2006 IR

**Table 8.** Category changes from the 2014 listed inland water bodies that identify pollutants where a *change* has occurred. Pollutants: Enterococcus; TN=total nitrogen; NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen; TP=total phosphorus; Turbidity. Summary rationale codes: NND=new numerical data; NL=new impairment listing (assign category 5); DL=delisting (category change from 5 to 2).

KAUAI					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Waiopili Stream	2-3-99	Turbidity (wet season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
	2-3-99	Enterococcus (wet season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Ahuimanu Stream	3-2-07.03	Enterococcus (wet & dry season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Ala Wai Canal & Boat Harbor	HIW00050	NO <sub>3</sub> +NO <sub>2</sub>	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
		NH <sub>4</sub>	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
Heeia Stream	3-2-08	TP (wet season)	Delist Pollutant	NND, DL	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Turbidity (wet season)	Delist Pollutant	NND, DL	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		TN (dry season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Kahaluu Estuary	3-2-07-E	Enterococcus	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Kahaluu Stream	3-2-07.02	Enterococcus (wet & dry season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Turbidity (wet season)	Delist Pollutant	NND, NL	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
Kamooalii Stream (Trib to Kaneohe Stream)	3-2-10.01	NO <sub>3</sub> +NO <sub>2</sub> (wet & dry season)	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
		Turbidity (wet & dry season)	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
		TSS (wet & dry season)	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
Kapaa Stream	3-2-13-Kapaa	NO <sub>3</sub> +NO <sub>2</sub>	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
		Turbidity	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
Kawa Stream	3-2-11	NO <sub>3</sub> +NO <sub>2</sub>	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
		Turbidity	Change V <sub>T</sub> to V		Changed V <sub>T</sub> to V listing because pollutant is not covered in TMDL.
Waiahole Stream	3-2-04	Enterococcus (wet & dry season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Turbidity (dry season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

OAHU					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Waihee Stream	3-2-07.01	Enterococcus (wet & dry season)	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Turbidity (wet season)		NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 3 to 2.

Big Island					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Changes
Leleiwi Beach Co. Park (Richardson Ocean Center)	HIW00030	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

### B.5. Wetlands Program

Responsibilities for wetland protection are diffused among various federal, state and county authorities. There is no formal wetland program in HDOH. However, HDOH does utilize their authority under CWA §401 (WQC) to certify, waive or deny water quality certification for CWA §404 permits issued by the USACE for dredge/fill activities in U.S. waters.

### B.6. Public Health Issues

#### Leptospirosis Threat

Leptospirosis is not included as a specific water quality standard parameter. However, all inland freshwaters within the State are considered potential sources of Leptospirosis infection by the epidemiology section of HDOH. No direct tests have been approved or utilized to ascertain the extent of the public health threat through water sampling. Epidemiologic evidence has linked several illness outbreaks to contact with freshwater, leading authorities to issue blanket advisories for all inland freshwaters of the State.

#### Fish Consumption Advisory

Pearl Harbor and Ala Wai Canal have been identified and posted as areas where fish and shellfish should not be consumed. Contamination of fish and shellfish include organochlorine pesticides and/or polychlorinated biphenyls (PCBs) and lead.

## REFERENCES

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**CHAPTER 3: 2016 §303(d) and §305(b) WATER BODY ASSESSMENTS FOR  
HAWAII**

## 2016 §303(d) and §305(b) Water Body Assessments for Hawaii

States are required to obtain and review all existing and readily available State surface water quality data and related information to compare against the applicable water quality standards and characterize water quality. Hawaii's water quality standards established numeric criteria for various pollutants at levels protective of the water body's ability to support "fishable and swimmable" conditions. The 2016 State of Hawaii Water Quality Monitoring and Assessment Report presents the results of water body assessments primarily based on the numeric criteria appropriate for supporting environmental health and human recreational health. This report in conjunction with the U.S. Environmental Protection Agency's (EPA) water quality reporting database serve as the primary vehicles for informing Congress and the public about general water quality conditions in the United States.

The water body assessment results are categorized per EPA's 2006 Integrated Report guidance (Table 9). Water bodies with pollutant concentrations below the numeric criteria are evaluated as "attaining" (A) and assigned to either category 1 or 2. Water bodies that did not have enough data for evaluation purposes are coded with a "-" and assigned to Category 3. Category 4 describes waters that are not meeting designated uses but do not require a TMDL for various reasons: there is an approved TMDL in place (4a), the impairment is being addressed through other pollution control requirements (4b), or the impairment is not caused by a pollutant (4c). Water bodies that exceed the numeric criteria for one or more pollutants and need a TMDL are evaluated as "not attaining" (N) and assigned to category 5. The water bodies with a category 5 designation constitute the CWA §303(d) list of impaired waters.

**Table 9.** Water Body Assessment Categories

Category	
<b>1</b>	All designated uses are supported, no use is threatened;
<b>2</b>	Available data and/or information indicate that some, but not all of the designated uses are supported;
<b>3</b>	There is insufficient available data and/or information to make a use support determination;
<b>4</b>	Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a Total Maximum Daily Load (TMDL) is not needed;
<b>4a</b>	A TMDL to address a specific segment/pollutant combination has been approved or established by EPA;
<b>4b</b>	A use impairment caused by a pollutant is being addressed by the State through other pollution control requirements;
<b>4c</b>	A use is impaired, but the impairment is not caused by a pollutant;
<b>5</b>	Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

A water pollution reduction plan, or TMDL, is required for water bodies that are impaired or not expected to meet State WQS (Category 5), even after the application of technology-based effluent limitations in NPDES permits. The prioritization (low, medium, high) of water bodies for TMDL development is based on the number of parameters not attaining state WQS, severity of exceedences, and resource availability. Review of the Kapaa Stream TMDL (2007) indicated that only TN, TP, and TSS were included. Changes (N<sub>i</sub> to N) were made in the following table to reflect that NO<sub>3</sub>+NO<sub>2</sub> and turbidity were not part of the Kapaa Stream TMDL.

The 2016 IR marine assessments are based on DUs bounded by State watershed delineations and distance from shoreline. In contrast with previous IRs, the new watershed DU assessments represent the status of assessed State water bodies (§305(b)) and list of impaired waters (§303(d)). There are some watersheds listed twice due to containing nested scopes of assessment that are classified as an embayment or coastal water body type and thus are compared to different WQS. The nested scopes of assessment indicate where sampling has occurred and provide guidance on pollutant source tracking.

Results do not reflect all water bodies in the State. Hawaii Island will be organized into watershed DUs by the next reporting cycle (i.e. 2018 IR). Scopes of assessment not associated with a CWB watershed DU lack geospatial information to place them in their respective watershed(s). It is important to note that the scopes of assessments contain a number of water bodies similar in name to other water bodies (indicated by an asterisk \*); these are not duplicates. These water bodies were listed in previous IRs as separate water bodies from similar sampling stations. Prior assessments confirmed with new data are shaded, and any category changes for previously assessed waters are bolded, italicized, underlined and shaded.

Each water body assessment is categorized according to EPA methods for inland and marine waters. Estuarine waters moved from marine waters to inland waters because HAR Ch. 11-54 classifies estuaries as inland waters. Water bodies are sorted by island (north to south) and then by inland (streams and estuaries) and marine waters. For both inland and marine waters the following applies:

- **Inland Waters Scope of Assessment**

- EN = Entire Network
- EE = Entire Estuary
- ER = Entire Reservoir
- EW = Entire Wetland
- EL = Entire Lake

- **Marine Water Body Type**

- B = Embayment (as specified within HAR Ch. 11-54-6)
- C = Open Coastal (marine waters from the shoreline to 183 m (600 ft) depth contour)
- O = Oceanic (marine waters from the 183 m (600 ft) depth contour to 3 miles offshore)
- E = Estuary
- K = Kona (all marine waters of Hawaii Island from Loa Point, South Kona District, clockwise to Malae Point, North Kona District, excluding Kawaihae Harbor and Honokohau Harbor, and for all areas from the shoreline at mean lower low water to a distance 1000 m seaward (HAR Ch. 11-54-6))
- P = Pearl Harbor

**Table 10.** 2016 Assessment results for inland and marine waters on Kauai, Oahu, Molokai, Lanai, Maui and Hawaii. Most marine water bodies are nested (\*) within their respective CWB watershed decision unit. The CWB watershed decision unit is the basis for the status of the State water bodies (§305(b)) and list of impaired waters (§303(d)) for marine waters.

KAUAI Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Aakukui	Stream	EN	2-4-02		-	-	-	-	-	-		3	
Aliomanu	Stream	EN	2-1-36		-	-	-	-	-	-		3	
Anahola	Stream	EN	2-2-01	Dry	-	Ac	A	A	N	A		2,3,5	L
Anahola	Stream	EN	2-2-01	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	
Black Pot Beach Park	Estuary	EE	HI891354	NA	-	-	-	-	-		NH <sub>4</sub> (?) Chl <i>a</i> (?)	3	
Hanakapiai	Stream	EN	2-1-10		-	-	-	-	-	-		3	
Hanalei	Stream	EN	2-1-19	Dry	N <sub>T</sub>	A	A	N	A <sub>T</sub>	A <sub>T</sub>		2,4a,5	TMDLs approved 2008 (Entero, Turbidity & TSS), L (Nutrients)
Hanalei	Stream	EN	2-1-19	Wet	N <sub>T</sub>	A	A	A	A <sub>T</sub>	A <sub>T</sub>		2,4a	TMDLs approved 2008 (Entero, Turbidity & TSS)
Hanalei Bay upstream of Dolphin*	Estuary	EE	HIW00160	NA	- <sub>T</sub>	-	-	-	N <sub>T</sub>		NH <sub>4</sub> (?) Chl <i>a</i> (?)	3,4a	TMDLs approved 2008 (Entero & Turbidity)
Hanalei River (End of Weke Road)	Estuary	EE	HI385259	NA	N <sub>T</sub>	A	A	N	N <sub>T</sub>		NH <sub>4</sub> (N) Chl <i>a</i> (A)	2,4a,5	TMDLs approved 2008 (Entero & Turbidity), L (Nutrients)
Hanamaulu	Stream	EN	2-2-12	Dry	-	-	-	-	N	-		3,5	L
Hanamaulu	Stream	EN	2-2-12	Wet	-	-	-	-	N	-		3,5	
Hanapepe	Stream	EN	2-3-07	Dry	-	A	A	A	N	A		2,3,5	L
Hanapepe	Stream	EN	2-3-07	Wet	-	Ac	Ac	Ac	V	Ac		2,3,5	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), Ac = attained (with combined season data), Ac<sub>T</sub> = attained (with combined season data) (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), Nc = not attained (with combined season data), Nc<sub>T</sub> = not attained (with combined data) (TMDL approved for parameter), N<sub>1</sub> = not attained (2x the standard), N<sub>1T</sub> = not attained (2x the standard, TMDL approved for parameter), N<sub>1c</sub> = not attained (with combined data, 2x the standard), V = visual listing from 2001-2004, V<sub>T</sub> = visual listing from 2001-2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; prior assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*

KAUAI Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Huleia	Stream	EN	2-2-15	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	V <sub>T</sub>	A <sub>T</sub>		4a	TMDLs approved 2008 (Entero, Nutrients, Turbidity & TSS)
Huleia	Stream	EN	2-2-15	Wet	N <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>		4a	
Kalihiwai	Stream	EN	2-1-25		-	-	-	-	-	-		3	
Kapaa	Stream	EN	2-2-04	Dry	-	A	A	A	N	A		2,3,5	L
Kapaa	Stream	EN	2-2-04	Wet	-	A	A	A	N	A		2,3,5	
Kilauea	Stream	EN	2-1-28	Dry	-	A	A	A	N	A		2,3,5	L
Kilauea	Stream	EN	2-1-28	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	
Kipu	Stream	EN	2-3-01		-	-	-	-	-	-		3	
Lawai	Stream	EN	2-3-04	Dry	-	N	N	A	N	A		2,3,5	L
Lawai	Stream	EN	2-3-04	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	
Limahuli	Stream	EN	2-1-12	Dry	-	A	N	A	-	A		2,3,5	L
Limahuli	Stream	EN	2-1-12	Wet	-	-	-	-	Ac	-		2,3	
Lumahai	Stream	EN	2-1-15		-	-	-	-	-	-		3	
Mahinauli	Stream	EN	2-4-01		-	-	-	-	-	-		3	
Manoa	Stream	EN	2-1-13	Dry	-	Ac	Ac	Ac	N1	Ac		2,3,5	L
Manoa	Stream	EN	2-1-13	Wet	-	Ac	Ac	Ac	Nc	Ac		2,3,5	
Moloaa	Stream	EN	2-1-34	Dry	-	A	A	A	N	A		2,3,5	L
Moloaa	Stream	EN	2-1-34	Wet	-	-	-	-	N	-		3,5	
Nawiliwili	Stream	EN	2-2-13	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	V <sub>T</sub>	A <sub>T</sub>		4a	TMDLs approved 2008 (Entero, Nutrients, Turbidity & TSS)
Nawiliwili	Stream	EN	2-2-13	Wet	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>		4a	
Papaa	Stream	EN	2-1-35	Dry	-	N1	N1	Ac	N1	Ac		2,3,5	L
Papaa	Stream	EN	2-1-35	Wet	-	-	-	-	-	-		3	

**Decision Codes:** - = insufficient data,  $\neg$  = insufficient data (TMDL approved for parameter), A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), Ac = attained (with combined season data), Ac<sub>T</sub> = attained (with combined season data) (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), Nc = not attained (with combined season data), Nc<sub>T</sub> = not attained (with combined data) (TMDL approved for parameter), N1 = not attained (2x the standard), N1<sub>T</sub> = not attained (2x the standard, TMDL approved for parameter), N1c = not attained (with combined data, 2x the standard), V = visual listing from 2001-2004, V<sub>T</sub> = visual listing from 2001-2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; IP = TMDL development in progress; prior assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*

KAUAI Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Papakolea	Stream	EN	2-2-16	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>		4a	TMDLs approved 2008 (Entero, Nutrients, Turbidity & TSS)
Papakolea	Stream	EN	2-2-16	Wet	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>		4a	
Puali	Stream	EN	2-2-14	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	N1 <sub>T</sub>	A <sub>T</sub>		4a	TMDLs approved 2008 (Entero, Nutrients, Turbidity & TSS)
Puali	Stream	EN	2-2-14	Wet	N <sub>T</sub>	Nc <sub>T</sub>	N1 <sub>T</sub>	Ac <sub>T</sub>	Nc <sub>T</sub>	Ac <sub>T</sub>		4a	
Uhelekawawa	Stream	EN	2-2-Uhelekawawa		-	-	-	-	V	-		3,5	L
Wahiawa	Stream	EN	2-3-06	Dry	-	N1	N1	A	N1	A		2,3,5	L
Wahiawa	Stream	EN	2-3-06	Wet	-	Nc	Nc	Ac	Nc	Ac		2,3,5	L
Waikoko	Estuary	EE	HIW00162	NA	N	N	N	N	N <sub>T</sub>		NH <sub>4</sub> (N), Chl a(A)	2,4a,5	TMDL approved 2008 (Turbidity & TSS), L (Entero & Nutrients)
Waikomo	Stream	EN	2-3-02	Dry	-	Nc	N1	Ac	N1	Ac		2,3,5	L
Waikomo	Stream	EN	2-3-02	Wet	-	Nc	Nc	Ac	Nc	Ac		2,3,5	
Wailua	Stream	EN	2-2-08	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Wailua	Stream	EN	2-2-08	Wet	-	-	-	-	-	-		3	
Waimea	Stream	EN	2-4-04	Dry	-	A	A	N	N	A		2,3,5	L
Waimea	Stream	EN	2-4-04	Wet	-	Ac	Ac	Ac	V	Ac		2,3,5	
Waimea	Estuary	EE	2-4-04-E		-	-	-	-	V	-		3,5	L
Wainiha	Stream	EN	2-1-14	Dry	-	Ac	Ac	Ac	Ac	Ac		2,3	
Wainiha	Stream	EN	2-1-14	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Waioli	Estuary	EE	HIW00163	NA	N	A	N	N	N <sub>T</sub>		NH <sub>4</sub> (N), Chl a(A)	2,4a,5	TMDL approved 2008 (Turbidity& TSS), L (Entero & Nutrients)

**Decision Codes:** - = insufficient data,  $\neg$  = insufficient data (TMDL approved for parameter), A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), Ac = attained (with combined season data), Ac<sub>T</sub> = attained (with combined season data) (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), Nc = not attained (with combined season data), Nc<sub>T</sub> = not attained (with combined data) (TMDL approved for parameter), N1 = not attained (2x the standard), N1<sub>T</sub> = not attained (2x the standard, TMDL approved for parameter), N1c = not attained (with combined data, 2x the standard), V = visual listing from 2001-2004, V<sub>T</sub> = visual listing from 2001-2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; prior assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*

**KAUAI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Waioli	Stream	EN	2-1-18	Dry	-	A	A	A	A	A		2,3	
Waioli	Stream	EN	2-1-18	Wet	-	-	-	-	-	-		3	
<u>Waiopili</u>	<u>Stream</u>	<u>EN</u>	<u>2-3-99</u>	<u>Dry</u>	-	-	-	-	-	-		<u>3</u>	
<u>Waiopili</u>	<u>Stream</u>	<u>EN</u>	<u>2-3-99</u>	<u>Wet</u>	<u>N</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>N</u>	<u>-</u>		<u>3,5</u>	<u>L</u>
Waipa	Estuary	EE	HIW00164	NA	N	A	A	N	N <sub>T</sub>		NH <sub>4</sub> (N), Chl <i>a</i> (A)	2,4a,5	TMDL approved 2008 (Turbidity & TSS), L (Entero & Nutrients)
Waipa	Stream	EN	2-1-17	Dry	-	A	A	A	N <sub>T</sub>	A <sub>T</sub>		2,3,4a	TMDLs approved 2008 (Turbidity & TSS)
Waipa	Stream	EN	2-1-17	Wet	-	-	-	-	-	-		3	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), Ac = attained (with combined season data), Ac<sub>T</sub> = attained (with combined season data) (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), Nc = not attained (with combined season data), Nc<sub>T</sub> = not attained (with combined data) (TMDL approved for parameter), N1 = not attained (2x the standard), N1<sub>T</sub> = not attained (2x the standard, TMDL approved for parameter), N1c = not attained (with combined data, 2x the standard), V = visual listing from 2001-2004, V<sub>T</sub> = visual listing from 2001-2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; IP = TMDL development in progress; prior assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*

KAUAI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>AAKUKUI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Pakala (Makaweli)	HI468251	C	Wet	-	-	-	-	-	-	-		3	
<b><u>AEPO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kukuiula Bay	HI619039	B	Dry	-	-	-	-	-	-	-		3	
<b><u>AEPO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Spouting Horn Beach Co. Park	HI951651	C	Dry	-	-	-	-	-	-	-		3	
<b><u>ANAHOLA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Anahola Beach	HI823433	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>HANALEI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	<b><u>A<sub>T</sub></u></b>	-	-	-	-	<b><u>N<sub>T</sub></u></b>	-		<b><u>2,3,4a</u></b>	TMDLs approved 2012 (Entero & Turbidity)
*Hanalei Bay (Landing)	HIW00093	B	Wet	N <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		3,4a	
*Hanalei Bay (Pavilion)	HIW00092	B	Wet	A <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		2,3,4a	
<b><u>HANAMAULA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Hanama'ulu Bay (Beach)	HIW00094	B	Wet	N	-	-	-	-	N	-		3,5	L
<b><u>HANAPEPE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	-	<b><u>A</u></b>		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Port Allen Boat Harbor (Port Allen Pier)	HIW00026	B	Wet	-	A	A	N	A	N	A		2,3,5	L
<b><u>KALIIHAI CENTER WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Anini Beach Park	HI418744	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>KALIIHIKA WEST WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Anini Beach	HI338804	C	Wet	-	-	-	-	-	-	-		3	

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KAUAI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>KALIHIWAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kalihiwai Bay	HI264001	C	Wet	<b><u>A</u></b>	-	-	-	-	N	-		<b><u>2,3,5</u></b>	L
<b><u>KAPAA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kealia	HI402035	C	Wet	A	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
<b><u>KAPILIMAO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	<b><u>?</u></b>	-		<b><u>3</u></b>	
*Kekaha Beach Co. Park	HI530569	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kikiaola Beach	HI119207	<b><u>C</u></b>	Dry	-	-	-	-	-	-	-		3	
<b><u>KAULAULA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Polihale State Park	HI247403	C	Dry	A	-	-	-	-	N	-		2,3,5	L
<b><u>KAUMAKANI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,5</u></b>	<b><u>L</u></b>
*Salt Pond Beach Co. Park	HI701008	C	Wet	A	A	N	N	A	N	N		2,5	L
<b><u>KAWAILOA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Lydgate Park	HI798758	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Nukolii Beach Park	HI502794	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>LAWAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Lawa'i Kai	HI434882	C	Wet	-	-	-	-	-	-	-		3	
*Palama Beach (Nomilu)	HI665178	C	Wet	-	-	-	-	-	-	-		3	
<b><u>LIMAHULI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kee Beach	HI124511	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>LUMAHAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Lumaha'i Beach	HI889639	C	Wet	N	-	-	-	-	N	-		3,5	L
<b><u>MAHAULEPU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Gillin's Beach	HI976083	C	Dry	-	-	-	-	-	-	-		3	
*Haula Beach	HI277808	C	Dry	-	-	-	-	-	-	-		3	
*Kawailoa Beach	HI698776	C	Dry	-	-	-	-	-	-	-		3	

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KAUAI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Shipwreck Beach	HI358435	C	Dry	A	-	-	-	-	<u>N</u>	-		2,3, <u>5</u>	<u>L</u>
<b><u>MANOA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Haena Beach Park	HI554189	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Tunnels Beach	HI936087	C	Wet	-	-	-	-	-	-	-		3	
<b><u>MOIKEHA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kapa'a Beach Co. Park	HI972832	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>NIU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Pacific Missile Range Facility/Barking Sands Beach	HI176480	C	Dry	A	A	A	A	A	N	A		2,5	L
<b><u>NAWILIWILI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>A</u></b>		<b><u>2,5</u></b>	<b><u>M</u></b>
*Nawiliwili Bay (Kalapaki Beach)	HIW00114	B	Dry	A	A	N	N	A	N	N		2,5	M
*Nawiliwili Bay (Nawiliwili Harbor)	HIW00115	B	Dry	A	A	N	N	A	N	A		2,5	M
<b><u>WAHIAWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Glass Beach	HI949505	C	Wet	-	-	-	-	-	-	-		3	
<b><u>WAHIAWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Wahiawa Bay	HI179708	B	Wet	-	-	-	-	-	-	-		3	
<b><u>WAIKAEA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Waipouli Beach	HI682678	C	Wet	A	-	-	-	-	<u>N</u>	-		2,3, <u>5</u>	<u>L</u>
<b><u>WAIKOMO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Beach House Beach	HI156238	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Brennecke Beach	HI166521	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Koloa Landing	HI955435	C	Dry	N	-	-	-	-	N	-		3,5	L
*Po'ipu Beach Co. Park	HI396850	C	Dry	A	-	-	-	-	N	-		2,3,5	L

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KAUAI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Prince Kuhio Park	HI742228	C	Dry	-	-	-	-	-	-	-		3	
*Sheraton Beach	HI542569	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Wai'ohai Beach	HI392082	C	Dry	-	-	-	-	-	-	-		3	
<b><u>WAILEIA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Princeville	HI520271	<b><u>B</u></b>	Wet	-	-	-	-	-	-	-		3	
<b><u>WAILUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Wailua (Wailua River Station)	HI606168	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>WAIMEA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Waimea Bay Beach (Near River Station)	HI862821	C	Dry	N	-	-	-	-	-	-		3,5	L
*Waimea Rec. Pier St. Park	HI245235	C	Dry	N	-	-	-	-	N	-		3,5	L
<b><u>WAINIHA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kepuhi Beach	HI344813	C	Wet	-	-	-	-	-	-	-		3	
*Wainiha Bay	HI417823	C	Wet	-	-	-	-	-	-	-		3	
<b><u>WAIOLI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	<b><u>A<sub>T</sub></u></b>	-	-	-	-	<b><u>N<sub>T</sub></u></b>	-		<b><u>2,3,4a</u></b>	<b><u>TMDLs approved 2012</u></b>
*Hanalei Bay (Waioli Beach)	HIW00091	B	Wet	A <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		2,3,4a	<b><u>(Entero &amp; Turbidity)</u></b>
<b><u>WAIPA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Waikoko Bay	HI330114	B	Wet	-	-	-	-	-	-	-		3	

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Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Aliomanu Beach	HI710019	C	Wet	-	-	-	-	-	-	-		3	
Anahola Beach	HI270737	C	Wet	-	-	-	-	-	-	-		3	
Donkey Park	HI853903	C	Wet	-	-	-	-	-	-	-		3	
Hanakapi'ai Beach	HI797414	C	Wet	-	-	-	-	-	-	-		3	
Hanalei Bay Mooring Station*	HIW00157	B	Wet	N	-	-	-	-	-	-		3,4a	TMDLs approved 2012 (Entero & Turbidity)
Hanama'ulu Bay	HIW00063	B	Wet	-	-	-	-	-	N	-		3,5	L
Hanapepe Bay	HIW00095	B	Wet	-	-	-	-	-	-	-		3	
Hanapepe Bay-from breakwater to shore and near shore waters to 30' from Puolo Point to Paakehi Point	HIW00048	B	Wet	-	Y	Y	-	Y	-	-		3,5	L
Kahili Beach	HI533519	C	Wet	-	-	-	-	-	-	-		3	
Kalalau Beach	HI908803	C	Wet	-	-	-	-	-	-	-		3	
Kauapea Beach (Secret Beach)	HI669328	C	Wet	-	-	-	-	-	-	-		3	
Kikiaola Boat Harbor	HIW00112	B	Dry	-	-	-	-	-	-	-		3	
Kipu Kai	HI266627	C	Wet	-	-	-	-	-	-	-		3	
Kukuiula Bay	HIW00113	B	Dry	-	-	-	-	-	-	-		3	
Larsens Beach	HI860960	C	Wet	-	-	-	-	-	-	-		3	
Maha'ulepu Beach	HI533799	C	Dry	-	-	-	-	-	-	-		3	
Mana Point	HIW00184	C	Dry	-	<u>N</u>	A	<u>N</u>	A	A	<u>N</u>		<b>2,3,5</b>	<b><u>L</u></b>
Miloli'i	HI333210	C	Dry	-	-	-	-	-	-	-		3	
Moloa'a Bay	HI547745	C	Wet	-	-	-	-	-	-	-		3	
Na Pali Coast State Park	HI709808	C	Wet	-	-	-	-	-	-	-		3	
Nawiliwili Bay (Offshore)	HIW00116	B	Wet	-	-	N	N	-	N	N		3,5	M
Nawiliwili Bay-from breakwater to shore	HIW00059	B	Dry	-	Y	Y	-	Y	Y	-		3,5	M
Nu'alolo	HI945520	C	Wet	-	-	-	-	-	-	-		3	
<b><i>Pacific Missile Range Facility (Open Coastal)</i></b>	<b><i>TBD</i></b>	<b><i>C</i></b>	<b><i>Dry</i></b>	-	<u>A</u>	<u>A</u>	<u>N</u>	<u>A</u>	-	<u>N</u>		<b><u>2,3,5</u></b>	<b><u>L</u></b>

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Papa'a Bay	HI130639	C	Wet	-	-	-	-	-	-	-		3	
Pila'a Beach	HI363048	C	Wet	-	-	-	-	-	-	-		3	
Port Allen	HIW00185	C	Wet	-	A	A	A	A	-	A		2,3	
Port Allen Boat Harbor	HIW00120	B	Wet	-	-	-	-	-	-	-		3	
Wahiawa Bay	HIW00121	<b><u>B</u></b>	Wet	-	-	-	-	-	-	-		3	
Waiakalua Iki Beach	HI505816	C	Wet	-	-	-	-	-	-	-		3	
Waiakalua Nui Beach	HI371632	C	Wet	-	-	-	-	-	-	-		3	
<b><i>Wailua (Open Coastal)</i></b>	<b><i>TBD</i></b>	<b><i>C</i></b>	<b><i>Wet</i></b>	<b><i>A</i></b>	<b><i>A</i></b>	<b><i>A</i></b>	<b><i>A</i></b>	<b><i>A</i></b>	<b><i>A</i></b>	<b><i>N</i></b>		<b><i>2,3,5</i></b>	<b><i>L</i></b>
Waimea Bay Beach-near shore waters to 18' from Kekaha Oomano Point-1.5 miles SE of Mahinaui Stream	HIW00057	C	Dry	-	-	-	-	-	Y	-	TSS	3,5	L

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OAHU Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Ala Wai Canal & Harbor (McCully Bridge Stn)	Estuary	EE	HIW00086	NA	N	-	-	-	-		NH <sub>4</sub> (?), Chl <i>a</i> (?)	3,5	L
Ala Wai Canal & Harbor (Palolo Stream Fork)	Estuary	EE	HIW00034	NA	-	N	-	-	N		NH <sub>4</sub> (?), Chl <i>a</i> (?), Fecal	3,5	L
Anahulu	Estuary	EE	3-6-08-E		-	V	V	V	V	-		3,5	L
Halawa	Stream	EN	3-4-02		-	V	V	V	V	-		3,5	M
Hammer Point	Estuary (P)	EN	HIW00188	NA	A	-	-	-	-		NH <sub>4</sub> (?), Chl <i>a</i> (?)	2,3	
Heeia	Stream	EN	3-2-08	Dry	-	<u>N</u>	N	A	A	A		2,3,5	L
Heeia	Stream	EN	3-2-08	Wet	-	A	N	<u>A</u>	<u>A</u>	A		2,3,5	
Helemano	Stream	EN	3-6-07.02		-	V	V	V	V	-		3,5	L
Honouliuli	Stream	EN	3-4-11		-	-	-	-	-	-		3	
Iroquois Point	Estuary (P)	EE	HI412839	NA	A	-	-	-	-		NH <sub>4</sub> (?), Chl <i>a</i> (?)	2,3	
Kaaawa	Stream	EN	3-1-19		-	V	V	V	V	-		3,5	L
Kaala	Stream	EN	3-2-05	Dry	-	N	N	A	N	A		2,3,5	L
Kaala	Stream	EN	3-2-05	Wet	-	N	N	A	A	A		2,3,5	
Kaelepulu	Stream	EN	3-2-14		-	V	V	V	V	-		3,5	M
Kaelepulu Stream-Kailua Beach	Estuary	EE	HIW00182	NA	N	N	-	N	N		NH <sub>4</sub> (?), Chl <i>a</i> (N)	3,5	M
Kahaluu	Estuary	EE	3-2-07-E		<u>N</u>	-	-	-	N	-		3,5	L
Kahaluu	Stream	EN	3-2-07.02	Dry	<u>N</u>	A	N	A	N	A		2,5	L
Kahaluu	Stream	EN	3-2-07.02	Wet	<u>N</u>	-	-	-	<u>A</u>	-		2,3,5	

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OAHU Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Kahana	Stream	EN	3-1-18	Dry	-	A	N	A	N	A		2,3,5	M
Kahana	Stream	EN	3-1-18	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Kahawainui	Stream	EN	3-1-07		-	V	V	V	V	-		3,5	L
Kaipapau	Stream	EN	3-1-10		-	-	-	-	-	-		3	
Kalauao	Stream	EN	3-4-04-01	Dry	-	N1	N1	-	N	-		3,5	M
Kalauao	Stream	EN	3-4-04-01	Wet	-	N	N	-	Ac	-		2,3,5	
Kalihi	Stream	EN	3-3-11	Dry	-	-	N	A	N	A	Trash	2,3,5	M
Kalihi	Stream	EN	3-3-11	Wet	-	N	N	A	A	A	Trash	2,3,5	M
Kaluanui	Stream	EN	3-1-13		-	-	-	-	-	-		3	
Kamooalii (Trib to Kaneohe Stream)	Stream	Kamooalii Trib	3-2-10.01	Dry	-	V <sub>T</sub>	V	V <sub>T</sub>	N	-		3,4a	TMDLs approved 2010 (TN & TP), L (Others)
Kamooalii (Trib to Kaneohe Stream)	Stream	Kamooalii Trib	3-2-10.01	Wet	-	V <sub>T</sub>	V	V <sub>T</sub>	-	-		3,4a	
Kaneohe	Stream	EN	3-2-10	Dry	-	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	N <sub>T</sub>	- <sub>T</sub>	Dieldrin	3,4a,5	
Kaneohe	Stream	EN	3-2-10	Wet	-	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	N <sub>T</sub>	- <sub>T</sub>	Dieldrin	3,4a,5	
Kapaa	Stream	EN	3-2-13-Kapaa		-	V <sub>T</sub>	V	V <sub>T</sub>	V	V <sub>T</sub>	Metals, Lead	3,4a,5	TMDLs approved 2007 (TN, TP & TSS)
Kapakahi	Stream	EN	3-4-Kapakahi	Wet	-	N	N	N	-	-	Trash	3,5	H (IP)
Kapakahi	Stream	EN	3-4-Kapakahi	Dry	-	-	-	-	V	-	Trash	3,5	
Kapalama	Stream	EN	3-3-10		-	V	V	V	V	-	Trash	3,5	L
Kaukonahua	Stream	EN	3-6-06.02	Dry	-	N	N	A	N1	A		2,3,5	M
Kaukonahua	Stream	EN	3-6-06.02	Wet	-	N	N	A	N1	A		2,3,5	
Kaukonahua (N Fork)	Stream	EN	3-6-06.02.2		-	V <sub>T</sub>	A	A	V <sub>T</sub>	A		2,3,4a	TMDLs approved 2010 (TN & Turbidity)
Kaukonahua (S Fork)	Stream	EN	3-6-06.02.1		-	V <sub>T</sub>	A	A	V <sub>T</sub>	A		2,3,4a	

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OAHU Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Kaupuni	Stream	EN	3-5-05		-	V	V	V	V	-	Trash	3,5	L
Kawa	Stream	EN	3-2-11		-	V <sub>T</sub>	V	V <sub>T</sub>	V	V <sub>T</sub>		3,4a	TMDLs approved 2002 & revised 2005 (TN, TP & TSS)
Kawaihoa	Stream	EN	3-6-08.01		-	V	V	V	V	-		3,5	
Kawainui	Stream	EN	3-2-13		-	-	-	-	-	-		3	
Kawainui Marsh	Wetland	EW	3-2-13-W		-	-	-	-	-	-		3	
Kawela	Stream	EN	3-1-04		-	-	-	-	-	-		3	
Keaahala	Stream	EN	3-2-09	Dry	-	N	N	N	N	A	Trash	2,3,5	L
Keaahala	Stream	EN	3-2-09	Wet	-	N	N	A	A	A	Trash	2,3,5	
Kiikii	Estuary	EE	3-6-06-E		-	-	-	-	-	-		3	
Koloa	Stream	EN	3-1-09	Both	-	-	-	-	-	-		3	
Makiki	Stream	EN	ALWS06	Dry	-	N	-	N	-	-		3,5	L
Manoa	Stream	EN	3-3-07.01		-	V	V	V	V	-	Dieldrin, Chlordane	3,5	L
Maunawili	Stream	EN	3-2-13.01		-	V	V	V	V	-	Trash	3,5	M
Moanalua	Stream	EN	3-3-12.01	Dry	-	N <sub>c</sub>	Ac	Ac	N1	Ac	Trash	2,3,5	L
Moanalua	Stream	EN	3-3-12.01	Wet	-	N <sub>c</sub>	Ac	Ac	Ac	Ac	Trash	2,3,5	L
Nuuanu	Stream	EN	3-3-09	Dry	-	N	N	N	N	N	Trash, Dieldrin, Chlordane	3,5	L
Nuuanu	Stream	EN	3-3-09	Wet	-	N	N	A	N	A	Trash, Dieldrin, Chlordane	2,3,5	
Opaepa	Stream	EN	3-6-07.01		-	V	V	V	V	-		3,5	L
Palolo	Stream	EN	3-3-07.01.1		-	-	-	-	-	-	Trash	3,5	L

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OAHU Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Paukaula	Estuary	EE	3-6-07-E		-	V	V	V	V	-		3,5	L
Pearl Harbor	Estuary (P)	EE	HIW00006	NA	-	N	-	N	A		NH <sub>4</sub> (?), Chl <i>a</i> (N)	2,3,5	H
Pearl Harbor-harbor waters and near shore waters to 30' from Keehi Lagoon to Oneula Beach	Estuary (P)	EE	HIW00119	NA	-	Y	Y	Y	N		NH <sub>4</sub> (?), Chl <i>a</i> (?), TSS (Y), PCBs, Fish Consumption Advisory	3,5	H
Poamoho	Stream	EN	3-6-06.01		-	V	V	V	V	-		3,5	M
Punaluu	Stream	EN	3-1-16	Dry	-	A	A	A	A	A		2,3	
Punaluu	Stream	EN	3-1-16	Wet	-	A	Ac	A	A	A		2,3	
Salt Lake	Lake	EL	3-3-12-SaltLake		-	-	-	-	N	-	Trash	3,5	L
Wahiawa Reservoir	Reservoir	ER	3-6-06.02-R		-	V	V	V	V	-		3,5	M
Waiahole	Stream	EN	3-2-04	Dry	<u>N</u>	A	N	N	<u>N</u>	A		2,5	L
Waiahole	Stream	EN	3-2-04	Wet	<u>N</u>	Ac	Nc	Ac	A	Ac		2,5	
Waiawa	Stream	EN	3-4-06	Wet	-	A	A	A	V	A	Trash	2,3,5	M
Waiawa	Stream	EN	3-4-06	Dry	-	V	V	V	V	-	Trash	3,5	
Waihee	Stream	EN	3-2-07.01	Wet	<u>N</u>	V	V	V	<u>A</u>	-		2,3,5	L
Waihee	Stream	EN	3-2-07.01	Dry	<u>N</u>	N	N	A	N	A		2,5	
Waikane	Stream	EN	3-2-02	Dry	-	A	N	A	A	A		2,3,5	L
Waikane	Stream	EN	3-2-02	Wet	-	Ac	Nc	Ac	Ac	Ac		2,3,5	
Waikele	Stream	EN	3-4-10	Dry	-	N1	N1	-	-	-		3,5	H (IP)
Waikele	Stream	EN	3-4-10	Wet	-	N1	N1	-	N	-		3,5	
Waialele	Stream	EN	3-1-08	Wet	-	-	-	-	N1	-		3,5	L

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**OAHU Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Waimalu	Stream	EN	3-4-05	Wet	-	-	-	-	N1	-		3,5	M
Waimanalo	Stream	EN	3-2-15		-	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>		3,4a	TMDLs approved 2001 (Nutrients & Sediment)
Waimano	Stream	EN	3-4-06.01		-	-	-	-	V	-		3,5	M
Waiola	Stream	EN	3-2-07.04	Wet	-	-	-	-	V	-		3,5	L
Waiola	Stream	EN	3-2-07.04	Dry	-	-	-	-	V	-		3,5	

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OAHU Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>ALA WAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	-	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>3,2,5</u></b>	<b><u>L</u></b>
*Ala Moana Beach (Center)	HIW00001	C	Wet	A	A	A	A	A	N	N		2,5	L
*Ala Moana Beach (Diamond Head)	HIW00002	C	Wet	A	A	A	N	A	N	N		2,5	L
*Ala Moana Beach (Ewa)	HI473893	C	Wet	A	-	-	-	-	-	-		2,3	
*Fort DeRussy Beach	HI045715	C	Wet	A	-	-	-	-	-	-		2,3	
*Gray's Beach	HI941499	C	Wet	A	N	-	-	-	N	N		2,3,5	L
*Kahanamoku Beach	HI366432	C	Wet	A	A	A	A	A	N	N		2,5	L
*Kahanamoku Lagoon	HIW00003	C	Wet	N	-	-	-	-	-	-		3,5	L
*Kapi'olani Park	HI733929	C	Dry	A	-	-	-	-	-	-		2,3	
*Kuhio Beach	HI681782	C	Dry	A	A	N	N	A	N	N		2,5	L
*Kuhio Beach (Public Bath)	HI851298	C	Dry	A	A	A	N	A	N	N		2,5	L
*Magic Island	HI529142	C	Wet	A	-	-	-	-	N	-		2,3,5	<b><u>L</u></b>
*Outrigger Canoe Club Beach	HI943325	C	Dry	A	-	-	-	-	-	-		2,3	
*Point Panic	HI197311	C	Wet	A	-	-	-	-	-	-		2,3	
*Royal-Moana Beach	HI898947	C	Wet	A	A	N	N	A	N	N		2,5	L
*Sans Souci	HI617815	C	Dry	A	N	N	N	A	N	N		2,5	L
*Tongg's	HI248913	C	Dry	A	-	-	-	-	-	-		2,3	
*Waikiki Beach Center	HI244505	C	Wet	A	-	-	-	-	-	-		2,3	
*War Memorial Natatorium	HI624259	C	Dry	-	-	-	-	-	-	-		3	
<b><u>ANAHULU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Waialua Bay	HI451176	B	Wet	A	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
<b><u>HAAHAIONE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	<b><u>-</u></b>	-	-	-	-	<b><u>-</u></b>	-		<b><u>3</u></b>	
*Maunalua Beach Park	HI423413	B	Dry	A	-	-	-	-	-	-		2,3	
<b><u>HANAUMA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,5</u></b>	<b><u>L</u></b>
*Hanauma Bay (Beach)	HIW00096	B	Dry	A	A	N	N	A	N	A		2,5	L

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CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>HEEIA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Heeia Kea Small Boat Harbor	HIW00097	B	Wet	A	N	-	-	-	-	N		2,3,5	L
<b><u>KAAAWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kaaawa Beach Park	HI580360	C	Wet	A	-	-	-	-	-	-		2,3	
*Kalae oio Beach Park	HI860454	C	Wet	-	-	-	-	-	-	-		3	
*Kananelu Beach	HI196120	C	Wet	A	-	-	-	-	-	-		2,3	
<b><u>KAELEPULU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kailua Beach Park	HI482719	C	Wet	A	A	A	N	A	N	N		2,5	L
*Lanikai Beach	HI596989	C	Wet	A	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Lanikai Boat Ramp	HIW00193	C	Wet	A	-	-	-	-	-	-		2,3	
<b><u>KALOI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Barbers Point Beach Co. Park	HI593573	C	Wet	-	-	-	-	-	-	-		3	
*Ewa Beach	HI767464	C	Wet	A	-	-	-	-	-	-		2,3	
*Ewa Beach Park	HI319095	C	Wet	A	A	A	N	A	N	N		2,5	L
*Nimitz Beach	HI682233	C	Wet	A	-	-	-	-	-	-		2,3	
*Oneula Beach Park	HI825419	C	Wet	A	-	-	-	-	-	-		2,3	
*White Plains Beach	HI267023	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>KAHALUU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Laenani Beach Co. Park	HI930562	B	Wet	N	-	-	-	-	-	-		3,5	L
<b><u>KAHANA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kahana Bay Park	HIW00102	B	Wet	N	N	-	-	N	N	-		3,5	M
<b><u>KAHAWAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>?</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>M</u></b>
*Bellows Field Beach Co. Park (Waimanalo Stream Mouth)	HIW00081	C	Wet	N	A	N	N	N	-	N		2,3,5	M
*Kaiona Beach	HI234342	C	Dry	A	-	-	-	-	-	-		2,3	
*Waimanalo Bay St. Rec. Area (Park)	HIW00008	C	Dry	A	-	-	-	-	-	-		2,3	

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*Waimanalo Bay Station (Waimanalo Beach Co. Park North)	HIW00175	C	Dry	A	-	-	-	-	-	-		2,3	
*Waimanalo Beach Co. Park (South)	HIW00174	C	Dry	A	N	N	N	A	N	N		2,5	M
<b><u>KAHAWAINUI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Laie Bay	HI472847	C	Dry	A	N	-	-	N	N	N		2,3,5	L
<b><u>KAIPAPAU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kaipapa'u Beach	HI787959	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KALUAKAUILA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Ka'ena Point	HI645485	C	Dry	A	-	-	-	-	-	-		2,3	
*Yokohama Bay	HI269028	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KALUNAWAIKAAALA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>?</u></b>	-	-	-	-	-	-		<b><u>3</u></b>	
*Pupukea Beach Co. Park	HI193495	C	Wet	A	-	-	-	-	-	-		2,3	
<b><u>KAMAILEUNU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	-	-		<b><u>2,3</u></b>	
*Mauna Lahilahi Beach	HI639551	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KAMILONUI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Hawaii Kai Station	HIW00117	B	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KAUPUNI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Pokai Bay	HIW00007	B	Dry	A	A	N	N	A	<b><u>N</u></b>	N		2,3,5	L
*Waianae Regional Park	HI668527	<b><u>B</u></b>	Dry	-	-	-	-	-	-	-		3	
<b><u>KAWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kaneohe Bay at Kualoa	HI272280	B	Wet	-	-	-	-	-	-	-		2,3	
<b><u>KAWAIHAPAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Camp Harold Erdman	HI309544	C	Dry	-	-	-	-	-	-	-		3	
*Kealia Beach	HI612698	C	Dry	A	-	-	-	-	-	-		2,3	
*Mokule'ia Beach Co. Park	HI220308	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KAWAINUI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	-	-		<b><u>2,3</u></b>	
*Fort Hase Beach	HI410735	C	Dry	A	-	-	-	-	-	-		2,3	

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*Kalama Beach	HI071892	C	Dry	A	-	-	-	-	-	-		2,3	
*Kapoho Point	HIW00192	C	Dry	N	-	-	-	-	-	-		3,5	L
*North Beach	HI426406	C	Dry	A	-	-	-	-	-	-		2,3	
*Oneawa Beach	HI952205	C	Dry	A	N	-	-	N	N	N		2,3,5	L
<b><u>KAWELA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kawela Bay	HI698581	C	Dry	A	N	-	-	N	N	N		2,3,5	L
*Turtle Bay	HI776670	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KEAMANE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Chun's Reef	HI950962	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Kawailoa Beach	HI312049	C	Wet	-	-	-	-	-	-	-		3	
*Laniakea Beach	HI183312	C	Wet	A	-	-	-	-	-	-		2,3	
*Papa'iloa Beach	HI478834	C	Wet	A	-	-	-	-	-	-		2,3	
<b><u>KEEAU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kea'au Beach Co. Park	HI730738	C	Dry	A	-	-	-	-	-	-		2,3	
*Ohikilolo Beach (Barking Sands)	HI731423	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KOKO CRATER WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Halona Cove	HI132946	C	Dry	A	-	-	-	-	-	-		2,3	
*Kaloko (Queens) Beach	HI353985	C	Dry	A	-	-	-	-	-	-		2,3	
*Sandy Beach	HI776760	C	Dry	A	N	N	N	A	N	N		2,5	L
*Wawamalu Beach Park	HI329454	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KOLOA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kokololio Beach	HI767708	C	Dry	A	-	-	-	-	-	-		2,3	
*Pounders Beach	HI587568	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>KUALOA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kualoa Co. Regional Park	HI848207	C	Wet	A	N	N	N	A	N	N		2,5	L

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*Kualoa Sugar Mill Beach	HI484535	C	Wet	A	-	-	-	-	-	-		2,3	
<b><u>KULIOUOU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kuli'ou'ou	HI360513	B	Dry	N	-	-	-	-	-	-		3,5	L
*Paiko Lagoon	HI598745	<b><u>B</u></b>	Dry	-	-	-	-	-	-	-		3	
<b><u>LOKO EA</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Haleiwa Beach Park	HI994019	B	Wet	A	N	-	-	N	-	N		2,3,5	L
<b><u>MAAKUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Aukai Beach Co. Park	HI145110	C	Dry	A	-	-	-	-	-	-		2,3	
*Hauula Beach Park	HI854492	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>MAILILI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Lualualei Beach Co. Park	HI800877	C	Dry	A	-	-	-	-	-	-		2,3	
*Ma'ili Beach Park	HI627464	C	Dry	A	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Maipalaoa Beach	HI280966	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>MAKAHA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Laukinui Beach	HI739818	C	Dry	A	-	-	-	-	-	-		2,3	
*Makaha Beach	HI632106	C	Dry	A	A	N	N	A	N	N		2,5	L
*Papaoneone Beach	HI990625	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>MAKAIWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Hawaiian Electric Beach Park	HI628972	C	Dry	A	-	-	-	-	-	-		2,3	
*Kahe Point Beach Co. Park	HI548986	C	Dry	A	-	-	-	-	-	-		2,3	
*Manner's Beach	HI717740	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>MAKAIWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Ihilani Honu Lagoon	HI815093	<b><u>B</u></b>	Dry	A	-	-	-	-	-	-		2,3	
*Ihilani Kohola Lagoon	HI515191	<b><u>B</u></b>	Dry	A	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Ihilani Naia Lagoon	HI685981	<b><u>B</u></b>	Dry	A	-	-	-	-	-	-		2,3	
*Ihilani Ulua Lagoon	HI550240	<b><u>B</u></b>	Dry	A	-	-	-	-	-	-		2,3	

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<b><u>MAKAPUU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Makapuu Beach	HI723399	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kaupo Beach Co. Park	HI791127	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>MAKAUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Makaua Beach Co. Park	HI542752	C	Wet	-	-	-	-	-	-	-		3	
*Swanzy Beach Co. Park	HI151343	C	Wet	A	-	-	-	-	-	-		2,3	
<b><u>MALAEKAHANA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kahuku Golf Course	HI989341	C	Dry	-	-	-	-	-	-	-		3	
*Malaekahana State Park	HI137325	C	Dry	A	-	-	-	-	N	-		2,3,5	L
<b><u>MAKUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Makua Beach	HI915061	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>MOANALUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Keehi Lagoon	HIW00009	B	Wet	N	-	-	-	-	-	-		3,5	L
<b><u>NANAKULI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Nanakuli Beach Park	HI467413	C	Dry	A	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
<b><u>NUI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Niu	HI157026	C	Dry	-	-	-	-	-	-	-		3	
<b><u>NUUANU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	-	-		<b><u>2,3</u></b>	
*Kakaako Waterfront	HI302297	C	Wet	A	-	-	-	-	-	-		2,3	
*Sand Island (Shoreline)	HI714359	C	Wet	A	A	N	A	A	N	N		2,5	L
<b><u>OIO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kaihalulu Beach	HI668562	C	Dry	A	-	-	-	-	-	-		2,3	
*Kuilima Cove	HI412224	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>PAKULENA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Banzai Beach	HI908378	C	Dry	-	-	-	-	-	-	-		3	

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OAHU Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Pipeline, The	HI188157	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>PAPAAKOKO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kaluanui Beach	HI410842	C	Dry	-	-	-	-	-	-	-		3	
<b><u>PAUKAUILA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kaiaka Bay	HIW00106	B	Wet	N	N	N	N	?	N	N		3,5	L
<b><u>PAUMALU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Ehukai Beach Co. Park	HI531535	C	Dry	A	-	-	-	-	-	-		2,3	
*Kaunala Beach	HI622160	C	Dry	A	-	-	-	-	-	-		2,3	
*Pahipahi'alua Beach	HI575467	C	Dry	A	-	-	-	-	-	-		2,3	
*Sunset Beach	HI860544	C	Dry	A	A	N	N	A	N	N		2,5	L
*Waiale'e	HI109657	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>PORTLOCK WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Koke'e Beach Park	HI147970	B	Dry	A	-	-	-	-	-	-		2,3	
*Koko Kai Beach Park	HI467112	B	Dry	A	-	-	-	-	-	-		2,3	
<b><u>PUNALUU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Punaluu Beach Park	HI148836	C	Wet	N	-	-	-	-	-	-		3,5	L
<b><u>ULEHAWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Nanaikapono Beach	HI504242	C	Dry	A	-	-	-	-	-	-		2,3	
*Pu'uohulu Beach	HI960731	C	Dry	A	-	-	-	-	-	-		2,3	
*Ulehawa Beach	HI784010	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>WAIALAENUI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Diamond Head	HI544313	C	Dry	A	-	-	-	-	-	-		2,3	
*Ka'alawai Beach	HI253930	C	Dry	N	-	-	-	-	-	-		3,5	L
*Kahala Beach Shoreline	HI514582	C	Dry	A	-	-	-	-	-	-		2,3	
*Kaluahole Beach	HI391176	C	Dry	A	-	-	-	-	-	-		2,3	
*Kuilei Cliffs	HI431723	C	Dry	A	-	-	-	-	-	-		2,3	
*Waialae Beach Co. Park	HI997368	C	Dry	A	-	-	-	-	-	-		2,3	

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OAHU Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>WAIALUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Mokule'ia Beach	HI908786	C	Dry	-	-	-	-	-	-	-		3	
*Pu'uiki	HI437024	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>WAIILELE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Laniloa Peninsula (Beach)	HI201901	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>WAILUPE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kahala Hilton Beach	HI173325	C	Dry	A	-	-	-	-	-	-		2,3	
*Kawaiku'i Beach Park	HI304424	C	Dry	A	-	-	-	-	-	-		2,3	
*Wailupe Beach Park	HI432476	C	Dry	-	-	-	-	-	-	-		3	
<b><u>WAIMANALO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>A</u></b>		<b><u>2,5</u></b>	<b><u>M</u></b>
*Bellows Field Beach Co. Park (N. Runway)	HI798011	C	Wet	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>A</u></b>		<b><u>2,5</u></b>	<b><u>M</u></b>
<b><u>WAIMEA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kapaeha Beach	HI904851	C	Wet	-	-	-	-	-	-	-		3	
*Waimea Bay	HIW00128	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>WAIPUHI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Makao Beach	HI147212	C	Dry	A	-	-	-	-	-	-		2,3	

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OAHU Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Ala Wai Boat Harbor (Ala Moana Bridge Station)	HIW00125	B	Wet	N	N	-	-	N	N	N		3,5	L
Campbell Industrial	HIW00187	C	Dry	-	A	A	<u>N</u>	A	<u>A</u>	<u>N</u>		2,3,5	L
Ewa (Open Coastal)	HIW00189	C	Wet	A	A	A	A	A	A	A		2	
Hanaka'ilio Beach	HI646411	C	Dry	-	-	-	-	-	-	-		3	
Hanauma Bay (Oceanic)	HIW00017	O	NA	-	-	N	N	-	-	N		3,5	M
Barbers Point Harbor	HIW00088	B	Dry	-	-	-	-	-	-	-		3	
Haleiwa Boat Harbor	HIW00127	B	Wet	-	-	-	-	-	-	-		3	
Hanauma Bay	HIW00058	B	Dry	-	-	-	-	-	-	-	Trash	3,5	M
Honolulu Harbor	HIW00100	B	Wet	-	-	-	-	-	-	-		3	
Honolulu Harbor & Shore Area-Honolulu Waterfront-Aloha Tower	HIW00061	B	Wet	-	-	A	N	-	A	-	Trash	2,3,5	L
Honolulu Harbor & Shore Area-Kewalo Basin	HIW00051	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y), Trash	3,5	L
Honolulu Harbor-near shore waters to 30' from one mile NW of Honolulu Harbor/Sand Island Channel to Waikiki Beach	HIW00049	B	Wet	Y	Y	Y	-	Y	N	-	Pathogens, Metals, TSS (Y)	3,5	L
Kahana Bay-near shore waters to 30' from Mahie Point to a point one mile north of Kahana Bay Station	HIW00062	B	Wet	-	-	-	-	-	N	-	TSS (Y)	3,5	M
Kahana Park	HIW00103	B	Wet	N	-	-	-	-	-	-		3,5	M
<b><i>Kahe Point (Open Coastal)</i></b>	<b><i>TBD</i></b>	<b><i>C</i></b>	<b><i>Dry</i></b>	-	<u>A</u>	<u>A</u>	<u>A</u>	<u>-</u>	<u>-</u>	-		<u>2,3</u>	
Kailua Bay (Open Coastal)	HIW00194	C	Dry	A	A	A	<u>N</u>	A	A	A		<u>2,5</u>	<u>L</u>
Kaneohe Bay (Beach Park)	HIW00004	B	Wet	-	N	-	-	N	N	N		3,5	L
Kaneohe Bay (Central Region)	HIW00013	B	Wet	-	N	N	N	-	N	-		3,5	L
Kaneohe Bay (Kokokahi Pier)	HIW00005	B	Wet	N	N	-	-	N	N	N		3,5	L
Kaneohe Bay (Northern Region)	HIW00012	B	Wet	-	N	N	N	-	N	-		3,5	L
Kaneohe Bay (Southern Region)	HIW00011	B	Wet	N	N	N	N	-	N	-		3,5	L

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OAHU Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Kaneohe Bay-near shore waters at mouths of Kaneohe and Kawa Streams	HIW00054	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Keehi Lagoon (Point X)	HIW00010	B	Wet	N	N	-	-	N	-	N		3,5	L
Keehi Lagoon waters and near shore waters to 30' from lagoon mouth to Pearl Harbor	HIW00055	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Kewalo Basin	HIW00126	C	Wet	-	N	-	-	N	N	N		3,5	L
Ko Olina	HIW00089	B	Dry	-	-	-	-	-	-	-		3	
Kuilei Cliffs Beach Park	HIW00064	C	Dry	-	-	-	-	-	-	-		3	
Makaua Beach Co. Park	HIW00066	C	Wet	-	-	-	-	-	-	-		3	
Mamala Bay (Fort Kamehameha Offshore)	HIW00190	C	Wet	-	A	A	A	A	A	<u>N</u>		<b>2,3,5</b>	<b><u>L</u></b>
Mamala Bay (Oceanic)	HIW00015	O	NA	-	N	-	-	-	-	N		3,5	L
Mamala Bay (Sand Island Offshore)	HIW00014	C	Wet	A	A	A	A	A	A	A		2	
Maunalua Bay	HIW00016	C	Dry	-	N	N	N	-	-	N		3,5	L
Mikilua Beach Park	HIW00186	C	Dry	A	-	-	-	-	-	-		2,3	
Ocean Pointe C	HIW00132	C	Wet	-	A	A	A	A	A	<u>N</u>		<b>2,3,5</b>	<b><u>L</u></b>
Ocean Pointe Control	HIW00129	C	Wet	-	A	A	A	A	<u>A</u>	N		2,3,5	L
Ocean Pointe E	HIW00130	C	Wet	-	A	A	A	A	<u>A</u>	<u>N</u>		2,3,5	L
Ocean Pointe W	HIW00131	C	Wet	-	A	A	A	A	<u>A</u>	N		2,3,5	L
Ocean Pointe KA	HIW00210	C	Wet	-	A	A	A	A	<u>A</u>	N		2,3,5	L
Ocean Pointe PR	HIW00211	C	Wet	-	A	A	A	A	<u>A</u>	<u>N</u>		2,3,5	L
Paiko Peninsula to Koko Head	HIW00118	B	Dry	-	-	-	-	-	-	-		3	
Pokai Bay (Oceanic)	HIW00019	O	NA	-	N	-	-	-	-	N		3,5	L
Pokai Bay (Open Coastal)	HIW00018	C	Dry	A	A	A	A	A	<u>N</u>	A		<b>2,5</b>	<b><u>L</u></b>
Queen's Surf Beach Park	HIW00069	C	Dry	-	-	-	-	-	-	-		3	
Sand Island Point #3	HIW00181	C	Wet	-	N	-	-	-	N	N		3,5	L
Sandy Beach (Open Coastal)	HIW00191	C	Dry	-	A	A	<u>N</u>	A	A	<u>N</u>		<b>2,3,5</b>	<b><u>L</u></b>
Waialua/Kaiaka Bays near shore waters to 60' from Puaena Point to a point 1.5 miles W of Kaiaka Point	HIW00083	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Waianae Boat Harbor	HIW00124	B	Dry	-	-	-	-	-	-	-		3	

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MOLOKAI Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Honoulimaloo	Stream	EN	4-2-02		-	-	-	-	-	-		3	
Honouliwai	Stream	EN	4-2-03	Wet	-	-	-	-	Ac	-		2,3	
Kamalo	Stream	EN	4-2-14		-	-	-	-	-	-		3	
Pelekunu	Stream	EN	4-1-09	Dry	-	-	-	-	A	-		2,3	
Waialua	Stream	EN	4-2-04	Wet	-	A	A	A	A	A		2,3	
Waialua	Stream	EN	4-2-04	Dry	-	Ac	Ac	Ac	N1	Ac		2,3,5	L
Wailau	Stream	EN	4-1-15		-	-	-	-	-	-		3	

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MOLOKAI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>HALAWA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Halawa Beach Park	HI928793	C	Wet	-	-	-	-	-	-	-		3	
<b><u>KOLO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kolo Wharf	HI928768	C	Dry	-	-	-	-	-	-	-		3	
<b><u>MO'OMOMI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Mo'omomi Beach	HI204811	C	Dry	-	-	-	-	-	V	-		3,5	L

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MOLOKAI Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Awahua Beach	HI702920	C	Dry	-	-	-	-	-	-	-		3	
Fagans Beach	HI571680	C	Dry	-	-	-	-	-	-	-		3	
Halena Beach	HI417163	C	Dry	-	-	-	-	-	-	-		3	
Hale O Lono Harbor	HIW00090	B	Dry	-	-	-	-	-	-	-		3	
Honouli Malo'o	HI783671	C	Dry	-	-	-	-	-	-	-		3	
Honouli Wai	HI376731	C	Dry	-	-	-	-	-	-	-		3	
Iliopi'i Beach	HI681345	C	Dry	-	-	-	-	-	-	-		3	
Kahalepohaku Beach	HI191374	C	Dry	-	-	-	-	-	-	-		3	
Kakahai'a Beach Park	HI939514	C	Dry	-	-	-	-	-	-	-		3	
Kamaka'ipo Beach	HI923737	C	Dry	-	-	-	-	-	-	-		3	
Kanalukaha Beach	HI559049	C	Dry	-	-	-	-	-	-	-		3	
Kapukahehu Beach	HI941577	C	Dry	-	-	-	-	-	-	-		3	
Kapukuwahine Beach	HI565164	C	Dry	-	-	-	-	-	-	-		3	
Kaunakakai Boat Harbor	HIW00109	B	Dry	-	-	-	-	-	-	-		3	
Kaunakakai Harbor	HIW00110	B	Dry	-	-	-	-	-	-	-		3	
Kaunala Beach	HI726225	C	Dry	-	-	-	-	-	-	-		3	
Kaupoa Beach	HI481092	C	Dry	-	-	-	-	-	-	-		3	
Kawa'aloa Bay	HI384043	C	Dry	-	-	-	-	-	V	-		3,5	L
Kawakiunui	HI114962	C	Dry	-	-	-	-	-	-	-		3	
Kepuhi Beach	HI287930	C	Dry	-	-	-	-	-	-	-		3	
Kiowea Park (Kamehameha Coconut Grove)	HI206014	C	Dry	-	-	-	-	-	-	-		3	
Lighthouse Beach	HI934213	C	Dry	-	-	-	-	-	-	-		3	
Murphy Beach Park	HI138494	C	Dry	-	-	-	-	-	-	-		3	
Oneali'i Beach Park	HI904462	C	Dry	-	-	-	-	-	-	-		3	
Papaloa Beach	HI301825	C	Dry	-	-	-	-	-	-	-		3	
Papohaku Beach	HI556777	C	Dry	-	-	-	-	-	-	-		3	
Pelekunu	HI443237	C	Wet	-	-	-	-	-	-	-		3	
Pohaku Mauiuli Beach	HI268134	C	Dry	-	-	-	-	-	-	-		3	

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MOLOKAI Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Po'olau Beach	HI454004	C	Dry	-	-	-	-	-	-	-		3	
Puko'o	HI665969	C	Dry	-	-	-	-	-	-	-		3	
Sandy Beach	HI329518	C	Dry	-	-	-	-	-	-	-		3	
South Molokai Coast-near shore waters to 18' from SW point-Waialua	HIW00052	C	Dry	-	Y	Y	-	Y	Y	-	TSS (Y)	3,5	L
Wailau	HI603285	C	Wet	-	-	-	-	-	-	-		3	

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LANAI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>ANAPUKA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kaluakoi Point to Huawai Bay	HIW00135	C	Dry	-	A	A	<u>A</u>	A	A	A		2,3	
<b><u>KAWAIU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kawaiu Gulch-Makole Point	HIW00133	C	Dry	-	A	A	A	A	A	N		2,3,5	L
<b><u>MAHANALUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Mahanalua	HIW00136	C	Dry	-	N	A	A	A	N	N		2,3,5	L
<b><u>MANELE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>		<b><u>2,3</u></b>	
*Hulupoe Bay	HIW00177	C	Dry	-	A	A	A	A	<u>A</u>	<u>A</u>		2,3	
*Manele Bay Beach	HIW00178	C	Dry	-	A	A	A	A	A	A		2,3	
<b><u>MANELE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Manele Boat Harbor	HIW00179	B	Dry	-	A	A	A	A	N	N		2,3,5	L

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LANAI Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Awehi	HIW00134	C	Dry	-	N	A	A	A	N	N		2,3,5	L
Halepalaoa Beach	HI297944	C	Dry	-	-	-	-	-	-	-		3	
Kahemano Beach	HI801428	C	Dry	-	A	A	N	A	N	A		2,3,5	L
Kaumalapau Harbor	HIW00108	B	Dry	-	-	-	-	-	-	-		3	
Kaunolu Bay	HI923988	C	Dry	-	-	-	-	-	-	-		3	
Keomuku Beach	HI854690	C	Dry	-	-	-	-	-	-	-		3	
Lopa Beach	HI735036	C	Dry	-	-	-	-	-	-	-		3	
Naha Beach	HI225961	C	Dry	-	-	-	-	-	-	-		3	
Polihua Beach	HI845453	C	Dry	-	-	-	-	-	-	-		3	
Puu Pehe Beach	HIW00180	B	Dry	-	-	-	-	-	-	-		3	
Shipwreck Beach	HI362906	C	Dry	-	-	-	-	-	-	-		3	

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MAUI Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Alelele	Stream	EN	6-5-20		-	-	-	-	-	-		3	
E. Wailuaiki	Stream	EN	6-4-16		-	-	-	-	-	-		3	
Haipuaena	Stream	EN	6-4-07		-	-	-	-	-	-		3	
Hanawi	Stream	EN	6-4-22		-	-	-	-	-	-		3	
Hanehoi	Stream	EN	6-3-11		-	-	-	-	-	-		3	
Hawawana	Stream	EN	6-3-13		-	-	-	-	-	-		3	
Hoalua	Stream	EN	6-3-12		-	-	-	-	-	-		3	
Honokohau	Stream	EN	6-1-11	Dry	-	A	A	A	A	A		2,3	
Honokohau	Stream	EN	6-1-11	Wet	-	Ac	Ac	Ac	A	Ac		2,3	
Honokowai	Stream	EN	6-1-07		-	-	-	-	V	-		3,5	M
Honolua	Stream	EN	6-1-10		-	-	-	-	-	-		3	
Honomanu	Stream	EN	6-4-09		-	-	-	-	-	-		3	
Honopou	Stream	EN	6-3-08	Wet	-	-	-	-	A	-		2,3	
Hoolawa	Stream	EN	6-3-09		-	-	-	-	-	-		3	
Iao	Stream	EN	6-2-09		-	-	-	-	V	-	Trash	3,5	M
Kaaiea	Stream	EN	6-4-02		-	-	-	-	-	-		3	
Kahakuloa	Stream	EN	6-2-03	Dry	-	A	A	A	A	A		2,3	
Kahakuloa	Stream	EN	6-2-03	Wet	-	-	-	-	A	-		2,3	
Kahana	Stream	EN	6-1-08		-	-	-	-	V	-		3,5	M
Kahoma	Stream	EN	6-1-05		-	-	-	-	V	-		3,5	M
Kailua	Stream	EN	6-3-14		-	-	-	-	-	-		3	
Kakipi	Stream	EN	6-3-07		-	-	-	-	-	-		3	
Kauaula	Stream	EN	6-1-04		-	-	-	-	-	-		3	
Kaupakulua	Stream	EN	6-3-03		-	-	-	-	-	-		3	
Kihei Coast-Kaonoulu Estuary	Estuary	EE	HIW00040	NA	-	N	N	-	N		NH <sub>4</sub> (?), Chl <i>a</i> (N)	3,5	L

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## MAUI Inland Waters

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Kihei Coast-Kealia Pond	HIW00070	EE	NA	NA	-	-	-	-	-		NH <sub>4</sub> (?), Chl <i>a</i> (N)	3,5	H
Kolea	Stream	EN	6-4-03		-	-	-	-	-	-		3	
Kopiliula	Stream	EN	6-4-17		-	-	-	-	-	-		3	
Kuaiaha	Stream	EN	6-3-02		-	-	-	-	-	-		3	
Launiupoko	Stream	EN	6-1-03		-	-	-	-	-	-		3	
Makamakaole	Stream	EN	6-2-06	Dry	-	A	A	A	N	A		2,3,5	L
Makamakaole	Stream	EN	6-2-06	Wet	-	A	A	A	A	A		2,3	
Maliko	Stream	EN	6-3-01	Wet	-	-	-	-	N1	-		3,5	L
Manawaiiao	Stream	EN	6-3-04		-	-	-	-	-	-		3	
Nuaailua	Stream	EN	6-4-10		-	-	-	-	-	-		3	
Oheo	Stream	EN	6-5-13	Dry	-	A	A	A	Ac	A		2,3	
Oheo	Stream	EN	6-5-13	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Ohia	Stream	EN	6-4-12		-	V	V	V	V	-	Trash	3,5	L
Olowalu	Stream	EN	6-1-02		-	-	-	-	-	-		3	
Oopuola	Stream	EN	6-4-01		-	-	-	-	-	-		3	
Piinaau	Stream	EN	6-4-11		-	-	-	-	-	-		3	
Punalau	Stream	EN	6-4-08		-	-	-	-	-	-		3	
Puohokamoa	Stream	EN	6-4-06		-	-	-	-	-	-		3	
Uaoa	Stream	EN	6-3-05		-	-	-	-	-	-		3	
Ukumehame	Stream	EN	6-1-01	Dry	-	A	N	A	A	A		2,3,5	L
Ukumehame	Stream	EN	6-1-01	Wet	-	Ac	Ac	Ac	A	Ac		2,3	
W. Wailuaiki	Stream	EN	6-4-15		-	-	-	-	-	-		3	
Waiakamilo	Stream	EN	6-4-13		-	-	-	-	-	-		3	
Waiehu	Stream	EN	6-2-08		-	-	-	-	-	-		3	

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MAUI Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Waihee	Stream	EN	6-2-07	Dry	-	A	A	A	A	A		2,3	
Waihee	Stream	EN	6-2-07	Wet	-	V	V	V	A	Ac		2,3,5	L
Waihikuli	Stream	EN	6-1-06		-	-	-	-	-	-		3	
Waikamoi	Stream	EN	6-4-04		-	-	-	-	-	-		3	
Waikapu	Stream	EN	6-2-10	Dry	-	Ac	?	Ac	Nc	Ac		2,3,5	L
Waikapu	Stream	EN	6-2-10	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Waiolai	Stream	EN	6-2-05		-	-	-	-	-	-		3	
Waipio	Stream	EN	6-3-10	Wet	-	-	-	-	N1	-		3,5	L

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MAUI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>HAPAPA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kalama Beach Co. Park (Beach)	HIW00023	C	Dry	A	N	N	N	N	N	N		2,5	L
*Kalama Beach Co. Park (Cove Park)	HI705118	C	Dry	A	N	N	N	N	N	N		2,5	L
*Kalepolepo Beach	HI647373	C	Dry	A	-	-	-	-	-	-		2,3	
*Kalepolepo (Waimahaihai)	HIW00141	C	Dry	A	A	N	N	N	N	N		2,5	L
*Kihei Coast-Kalepolepo	HIW00039	C	Dry	-	N	N	-	-	N	N		3,5	L
*Kihei Coast-Kulanihako	HIW00043	C	Dry	-	N	N	N	-	N	N		3,5	L
*Kihei Coast-Lipoa-South	HIW00072	C	Dry	-	-	-	-	-	N	N		3,5	L
*Kihei Coast-Luana Kai	HIW00041	C	Dry	-	N	N	N	-	N	N		3,5	L
*Mai Poina Oe Iau Beach Co. Park (Kihei N. Station)	HI715975	C	Dry	A	-	-	-	N	N	N		2,3,5	L
*Waipulani	HI284036	C	Dry	A	-	-	-	-	-	-		2,3	
<b><u>HONOKAHUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>H</u></b>
*Fleming Beach North	HI253548	C	Dry	A	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	N	N		2,5	H
*Oneloa Bay Beach	HI740710	C	Dry	A	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>		<b><u>2,5</u></b>	<b><u>H</u></b>
<b><u>HONOKOWAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>M</u></b>
*Honokowai Beach Co. Park	HI412391	C	Dry	A	A	N	N	A	N	N		2,5	M
*West Maui Coast-Lokelani	HIW00077	C	Dry	-	-	N	-	-	N	N		3,5	M
*West Maui Coast-S-Turns (Pohaku)	HIW00047	C		<b><u>A</u></b>	N	N	<b><u>N</u></b>	<b><u>N</u></b>	N	N		<b><u>2,5</u></b>	M
*West Maui-Papakea	HIW00079	C	Dry	-	-	-	-	-	N	N		3,5	M
<b><u>HONOLUA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>N</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>5</u></b>	<b><u>H</u></b>
*Honolua Bay	HI280286	C	Dry	<b><u>N</u></b>	<b><u>A</u></b>	N	N	N	<b><u>N</u></b>	N		2,5	H
*Mokule'ia Beach	HI977299	C	Dry	A	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>N</u></b>		<b><u>2,5</u></b>	<b><u>H</u></b>
<b><u>HONOMANU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Honomanu Bay	HI985873	C	Wet	N	-	-	-	-	-	-		3,5	L

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MAUI Marine Waters													
CWB Watershed Decision Unit with *Nested IR Scopes of Assessment	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
<b><u>IAO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Hata's	HI553820	<b><u>B</u></b>	Dry	A	-	-	-	-	-	-		2,3	
*Kahului Harbor	HIW00104	B	Dry	A	-	-	-	-	N	-		2,3,5	L
<b><u>KAHANA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>N</u></b>		<b><u>2,5</u></b>	<b><u>H</u></b>
*Kahana (Mahinahina Condo Shoreline)	HI160433	C	Dry	A	N	N	N	N	N	N		2,5	H
*Kapalua (Fleming's) Beach	HI391006	C	Dry	A	N	N	N	<b><u>N</u></b>	N	N		2,5	H
*Napili Bay	HI764060	C	Dry	A	A	N	N	<b><u>A</u></b>	<b><u>N</u></b>	N		2,5	H
*West Maui Coast-Honoheana Cove	HIW00044	C	Dry	-	N	N	-	-	N	N		3,5	H
*West Maui Coast-Kahana Cove	HIW00045	C	Dry	-	N	N	-	-	N	N		3,5	H
*West Maui Coast-Kahana Sunset	HIW00075	C	Dry	-	-	N	-	-	N	N		3,5	H
*West Maui Coast-Kahana Village	HIW00076	C	Dry	-	-	-	-	-	N	N		3,5	H
*West Maui Coast-Kaopala Bay	HIW00046	C	Dry	-	N	N	N	-	N	N		3,5	H
*West Maui Coast-Napili Bay	HIW00078	C	Dry	-	-	N	?	-	N	N		3,5	H
<b><u>KAHOMA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Mala Wharf-West Maui Coast	HIW00123	C	Dry	-	-	-	-	-	N	N		3,5	M
*Pu'unoa Beach	HI373055	C	Dry	A	-	-	-	-	N	-		2,3,5	M
*Wahikuli State Wayside Park	HI169380	C	Dry	A	-	-	-	-	N	N		2,3,5	M
<b><u>KAILUA GULCH WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*H.A. Baldwin Beach Co. Park	HI846900	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kanaha Beach	HI797225	C	Dry	A	-	-	-	N	N	N		2,3,5	L
*Lower Pa'ia (Pa'ia Outfall Station)	HI864937	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Spreckelsville	HI789952	C	Dry	A	-	-	-	-	N	-		2,3,5	L
<b><u>KALIALINUI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Kanaha Beach (Kaa Shoreline)	HIW00020	<b><u>B</u></b>	Dry	A	-	-	-	N	N	N		2,3,5	L

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MAUI Marine Waters													
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<b><u>KAUAULA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Lahaina Beach	HI407363	C	Dry	A	-	-	-	-	-	-		2,3	
*Puamana Beach Co. Park	HI167153	C	Dry	A	-	-	-	-	-	-		2,3	
*West Maui-Puamana	HIW00080	C	Dry	-	-	-	-	-	N	N		3,5	M
<b><u>KAWAIPAPA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Hana Bay	HI996835	C	Dry	-	-	-	-	-	-	-		3	
Wai'anapanapa State Park	HI118874	C	Dry	-	-	-	-	-	-	-		3	
<b><u>LAUNIUPOKO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>M</u></b>
*Launiupoko St. Wayside Park	HI558359	C	Dry	A	-	-	-	-	N	-		2,3,5	M
<b><u>MALIKO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	<b><u>?</u></b>	-		<b><u>3</u></b>	
*Ho'okipa Beach Co. Park	HIW00024	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Ku'au Bay	HI276573	C	Dry	A	-	-	-	-	-	-		2,3	
*Maliko Bay	HI423064	C	Dry	N	-	-	-	-	N	-		3,5	L
<b><u>MOOLOA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Oneloa Beach (Big Beach) (Makena Beach Station)	HI279887	C	Dry	A	-	-	-	-	N	N		2,3,5	L
<b><u>OHEO WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	Wet	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Pepeiaolepo Bay	HI136430	C	Wet	-	-	-	-	-	-	-		3	
<b><u>OLOWALU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Olowalu (Shorefront)	HIW00021	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Olowalu (Teen Challenge)	HI491359	C	Dry	A	-	-	-	-	N	-		2,3,5	L
<b><u>POHAKEA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>B</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Ma'alaea Beach	HI058731	<b><u>B</u></b>	Dry	A	-	-	-	-	N	N		2,3,5	L
<b><u>UKUMEHAME WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Papalaua	HI462219	C	Dry	A	-	-	-	-	-	-		2,3	
*Ukumehame Beach Co. Park	HI814309	C	Dry	A	-	-	-	-	-	-		2,3	

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<b><u>WAIAKOA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Mai Poina Oe Iau Beach Co. Park	HIW00025	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kihei Coast-Mokulele	HIW00042	C	Dry	-	N	N	-	-	N	N		3,5	L
<b><u>WAHIKULI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>A</u></b>		<b><u>2,5</u></b>	<b><u>M</u></b>
*Hanaka'o'o Beach Co. Park	HI797917	C	<b><u>Wet</u></b>	A	A	N	N	<b><u>A</u></b>	N	<b><u>A</u></b>		2,5	M
*Kaanapali (Kahekili Beach)	HI643627	C	Wet	A	A	<b><u>N</u></b>	<b><u>N</u></b>	A	N	A		2,5	M
*Kaanapali (Sheraton Kaanapali Shoreline)	HIW00022	C	<b><u>Wet</u></b>	A	<b><u>A</u></b>	<b><u>N</u></b>	<b><u>N</u></b>	<b><u>A</u></b>	N	<b><u>A</u></b>		2,5	M
<b><u>WAIIEHU WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Waiehu Beach Co. Park	HI916183	C	Wet	A	-	-	-	-	N	-		2,3,5	L
<b><u>WAIHEE WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Waihee	HI343702	C	Wet	A	-	-	-	-	-	-		2,3	
<b><u>WAILEA WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	<b><u>A</u></b>	-	-	-	-	<b><u>N</u></b>	-		<b><u>2,3,5</u></b>	<b><u>L</u></b>
*Kamaole Beach 1	HI761092	C	Dry	A	A	N	N	A	N	N		2,5	L
*Kamaole Beach 2	HI097179	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Kamaole Beach 3	HI496115	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Keawakapu Beach	HI607763	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Kihei Coast-Cove Park*	HIW00167	C	Dry	-	N	N	-	-	N	N		3,5	L
*Kihei Coast-Estuary Boat Ramp	HIW00166	C	Dry	-	N	N	-	-	N	-		3,5	L
*Kihei Coast-Keawakapu*	HIW00074	C	Dry	-	-	N	-	-	-	N		3,5	L
*Kihei Coast-Maui Coast	HIW00073	C	Dry	-	-	N	-	-	N	N		3,5	L
*Kihei Coast-South Kamaole II	HIW00071	C	Dry	-	-	N	-	-	-	N		3,5	L
*Makena Landing Beach	HI245556	C	Dry	A	-	-	-	-	-	-		2,3	
*Malu'aka Beach	HI847607	C	Dry	A	-	-	-	-	-	-		2,3	
*Mokapu Beach Park	HI861961	C	Dry	A	-	-	-	-	-	-		2,3	
*Palauea Beach Park	HI997014	C	Dry	A	-	-	-	-	-	-		2,3	
*Polo Beach Park	HI339656	C	Dry	A	-	-	-	-	-	-		2,3	
*Poolenalena Beach	HI684864	C	Dry	A	-	-	-	-	-	-		2,3	

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*Pu'u ola'i (Small Beach)	HI157533	C	Dry	A	-	-	-	-	-	-		2,3	
*Ulua Beach Park	HI588333	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Wailea Beach Park	HI278988	C	Dry	A	-	-	-	-	N	-		2,3,5	L
<b><u>WAIOPAI WATERSHED</u></b>	<b><u>TBD</u></b>	<b><u>C</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		<b><u>3</u></b>	
*Huakini Bay	HI385800	C	Dry	-	-	-	-	-	-	-		3	

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MAUI Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Ahihi-Kinau Natural Area Reserve	HIW00084	C	Dry	-	-	-	-	-	-	-		3	
Alaeloa Beach	HI616569	C	Dry	-	-	-	-	-	-	-		3	
Awalua Beach	HI839739	C	Dry	-	-	-	-	-	-	-		3	
Father Jules Papa	HI525524	C	Dry	-	-	-	-	-	-	-		3	
Hamoia	HI287670	C	Dry	-	-	-	-	-	-	-		3	
Hanaka'o'o Station*	HIW00165	C	Dry	-	-	N	-	-	N	-		3,5	M
Honokeana Bay	HI229021	C	Dry	-	-	-	-	-	-	-		3	
Honokohau Bay	HI432902	C	Dry	-	-	-	-	-	-	-		3	
Honokowai Point to Kaanapali	HIW00139	C	Dry	-	N	A	N	A	A	A		2,3,5	M
H-Poko Papa	HI901232	C	Dry	-	-	-	-	-	-	-		3	
Kahului Bay	HIW00195	<b><u>B</u></b>	<b><u>Wet</u></b>	-	<b><u>A</u></b>	N	<b><u>A</u></b>	<b><u>A</u></b>	-	<b><u>A</u></b>		<b><u>2,3,5</u></b>	<b><u>L</u></b>
Kahului Harbor (Bay)	HIW00105	B	Dry	-	N	N	N	-	N	N		3,5	L
Kahului Harbor-inshore of breakwater	HIW00053	B	Dry	-	V	V	?	V	N	-		3,5	L
Kaihalulu Bay	HI432263	C	Dry	-	-	-	-	-	-	-		3	
Ka'ili'iili Beach	HI641844	C	Dry	-	-	-	-	-	-	-		3	
Kanaio Beach	HI404881	C	Dry	-	-	-	-	-	-	-		3	
Kalama Beach Station*	HIW00168	C	Dry	-	N	N	N	-	N	N		3,5	L
Kapoli Beach Co. Park	HI599968	C	Dry	-	-	-	-	-	-	-		3	
Kea'a Beach	HI593477	C	Dry	-	-	-	-	-	-	-		3	
Ke'anae	HI959746	C	Wet	-	-	-	-	-	-	-		3	
Keonenui Beach	HI199865	C	Dry	-	-	-	-	-	-	-		3	
Kihei Coast-near shore waters to 60' from Kihei North-Kalama Beach	HIW00056	C	Dry	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Koki Beach Park (VFW)	HI650469	C	Dry	-	-	-	-	-	-	-		3	
Kuiaha Bay	HI852861	C	Dry	-	-	-	-	-	-	-		3	
Lahaina Harbor	HIW00137	B	Dry	-	-	-	-	-	N	-		3,5	M

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MAUI Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
La Perouse Bay	HI674004	C	Dry	-	-	-	-	-	-	-		3	
Leho'ula Beach	HI884223	C	Dry	-	-	-	-	-	-	-		3	
Ma'alaea Boat Harbor Station*	HIW00082	B	Dry	-	N	N	-	-	N	N		3,5	L
Ma'alaea Small Boat Harbor	HIW00140	B	Dry	-	-	-	-	-	N	N		3,5	L
Maka'ala Point	HI978171	C	Dry	-	-	-	-	-	-	-		3	
Makena Landing-Malu'aka Beach	HIW00142	C	Dry	-	N	N	N	A	N	<u>N</u>		2,3,5	L
Mala Wharf	HIW00171	C	Dry	N	-	-	-	N	N	N		3,5	M
Mala Wharf Area	HIW00138	C	Dry	-	N	N	N	A	N	N		2,3,5	L
Mantokuji Bay	HI482300	C	Dry	-	-	-	-	-	-	-		3	
McGregor Point	HI227321	C	Dry	-	-	-	-	-	-	-		3	
Mokulau	HI519980	C	Wet	-	-	-	-	-	-	-		3	
Nahiku	HI983172	C	Wet	-	-	-	-	-	-	-		3	
Nu'u Bay	HI176594	C	Dry	-	-	-	-	-	-	-		3	
Oneloa Beach (Big Beach)-Ahihi-Kinau	HIW00144	C	Dry	-	N	N	<u>A</u>	A	<u>N</u>	<u>N</u>		2,3,5	L
Oneuli Beach	HI756040	C	Dry	A	N	N	N	<u>A</u>	A	<u>N</u>		2,5	L
Poolenalena-Makena Landing	HIW00143	C	Dry	-	N	N	N	A	<u>A</u>	<u>N</u>		2,3,5	L
Punalau	HI641109	C	Dry	-	-	-	-	-	-	-		3	
Waikoloa Beach	HI796679	C	Dry	-	-	-	-	-	-	-		3	
Waimaha'ihai Beach	HI236756	C	Dry	-	-	-	-	-	-	-		3	
West Maui Coast-near shore waters to 60' from Honolua-Lahaina	HIW00060	C		-	Y	Y	-	Y	N	-	TSS (Y)	3,5	M
West Maui-Honokowai Watershed	HIW00208	C	Dry	-	-	-	-	-	-	-		3	
West Maui-Kahana Watershed	HIW00207	C	Dry	-	-	-	-	-	-	-		3	
West Maui-Wahikuli Watershed	HIW00209	C	Dry	-	-	-	-	-	-	-		3	

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# HAWAII (BIG ISLAND) Inland Waters

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Aamakao	Stream	EN	8-1-12	Dry	-	A	A	A	N	A		2,3,5	L
Aamakao	Stream	EN	8-1-12	Wet	-	A	A	A	A	A		2,3	
Alenaio	Stream	EN	8-2-61.01.1		-	V	V	V	-	-		3,5	M
Hakalau	Stream	EN	8-2-32		-	V	V	V	V	-		3,5	M
Halawa	Stream	EN	8-1-11		-	-	-	-	-	-		3	
Halelua	Stream	EN	8-1-10	Wet	-	-	-	-	N1c	-		3,5	L
Hanaula	Stream	EN	8-1-06		-	-	-	-	-	-		3	
Hapahapai	Stream	EN	8-1-07		-	-	-	-	-	-		3	
Honolii	Stream	EN	8-2-56	Dry	-	A	A	A	N	A		2,3,5	L
Honolii	Stream	EN	8-2-56	Wet	-	A	A	A	A	A		2,3	
Kaieie	Stream	EN	8-2-49	Dry	-	A	A	A	-	A		2,3	
Kaieie	Stream	EN	8-2-49	Wet	-	V	V	V	-	?		3,5	L
Kalaoa	Stream	EN	8-2-47	Both	-	Ac	Ac	Ac	Ac	Ac		2,3	
Kalaoa	Stream	EN	8-2-47	Dry	-	Ac	Ac	Ac	A	Ac		2,3	
Kapehu	Stream	EN	8-2-37	Dry	-	Ac	N	A	N	A		2,3,5	L
Kapehu	Stream	EN	8-2-37	Wet	-	A	A	A	A	A		2,3	
Kapue	Stream	EN	8-2-53	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Kapue	Stream	EN	8-2-53	Wet	-	Ac	Ac	Ac	?	Ac		2,3	
Kapulena	Stream	EN	8-1-52		-	-	-	-	-	-		3	
Kawaikalia	Stream	EN	8-1-53		-	-	-	-	-	-		3	
Keaukaha Beach Park	Estuary	EE	HI849313	NA	A	-	-	-	A		NH <sub>4</sub> (?), Chl <i>a</i> (?)	2,3	
Kolekole	Stream	EN	8-2-33	Dry	-	A	A	A	A	A		2,3	
Kolekole	Stream	EN	8-2-33	Wet	-	A	A	A	A	A		2,3	
Kumakua	Stream	EN	8-1-03		-	-	-	-	-	-		3	
Lalakea	Stream	EN	8-1-45	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Lalakea	Stream	EN	8-1-45	Wet	-	Ac	Ac	Ac	A	Ac		2,3	

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HAWAII (BIG ISLAND) Inland Waters													
Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Lehia Beach	Estuary	EE	HI691720	NA	A	-	-	-	-		NH <sub>4</sub> (?), Chl <i>a</i> (?)	2,3	
Leleiwi Beach Co. Park	Estuary	EE	HI540868	NA	A	-	-	N	A		NH <sub>4</sub> (?), Chl <i>a</i> (?)	2,3,5	L
Leleiwi Beach Co. Park (Richardson Ocean Center)	Estuary	EE	HIW00030	NA	A	-	-	-	<u>N</u>		NH <sub>4</sub> (?), Chl <i>a</i> (N)	2,3,5	L
Maili	Stream	EN	8-2-57	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Maili	Stream	EN	8-2-57	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Nanue	Stream	EN	8-2-27		-	-	-	-	-	-		3	
Nienie	Stream	EN	8-1-61		-	-	-	-	-	-		3	
Niulii	Stream	EN	8-1-13	Dry	-	A	A	A	N	A		2,3,5	L
Niulii	Stream	EN	8-1-13	Wet	-	A	A	A	A	A		2,3	
Paheehee	Stream	EN	8-2-34	Dry	-	Ac	Ac	Ac	A	Ac		2,3	
Paheehee	Stream	EN	8-2-34	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Pali Akamoa	Stream	EN	8-1-08		-	-	-	-	-	-		3	
Pololu	Stream	EN	8-1-15	Dry	-	-	-	-	-	-		3	
Pololu	Stream	EN	8-1-15	Wet	-	-	-	-	Ac	-		2,3	
Pukihae	Stream	EN	8-2-59	Dry	-	Ac	Ac	Ac	A	Ac		2,3	
Pukihae	Stream	EN	8-2-59	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Waiakea	Stream	EN	8-2-61		-	V	V	V	-	-		3,5	M
Waialeale	Stream	EN	8-1-50		-	-	-	-	-	-		3	
Waikama	Stream	EN	8-1-14	Dry	-	A	A	A	N	A		2,3,5	L
Waikama	Stream	EN	8-1-14	Wet	-	A	A	A	A	A		2,3	
Waikoloa	Stream	EN	8-1-51		-	-	-	-	-	-		3	
Wailoa	Estuary	EE	8-2-61-E		-	V	V	V	V	-		3,5	M

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## HAWAII (BIG ISLAND) Inland Waters

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Wailoa River (Boat Ramp)	Estuary	EE	HIW00172	NA	N	N	N	N	-		NH <sub>4</sub> (N), Chl <i>a</i> (?)	3,5	M
Wailoa/Waipio	Stream	EN	8-1-44	Dry	-	N	N	N	A	A		2,3,5	L
Wailoa/Waipio	Stream	EN	8-1-44	Wet	-	Nc	N1	Ac	A	Ac		2,3,5	
Wailuku	Stream	EN	8-2-60	Dry	-	A	N	A	A	A		2,3,5	L
Wailuku	Stream	EN	8-2-60	Wet	-	A	A	A	A	A		2,3	
Wainaia	Stream	EN	8-1-09	Dry	-	Ac	Ac	Ac	-	Ac		2,3	
Wainaia	Stream	EN	8-1-09	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Waipunahoe	Stream	EN	8-1-49		-	-	-	-	-	-		3	
Waipunalau	Stream	EN	8-1-77		-	-	-	-	-	-		3	
Waiulili	Stream	EN	8-1-47	Dry	-	-	-	-	-	-		3	
Waiulili	Stream	EN	8-1-47	Wet	-	-	-	-	Ac	-		2,3	

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## HAWAII (BIG ISLAND) Marine Waters

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
2nd Beach (next to Mahaiula)	HI616452	K	NA	A	-	-	-	-	N	-		2,3,5	L
Anaehoomalu Bay	HI326172	<b><u>B</u></b>	<b><u>Dry</u></b>	A	-	-	-	-	N	-		2,3,5	L
Analanui Pond (Puala'a)	HI707059	C	Dry	<b><u>A</u></b>	-	-	-	-	N	-		3,5	L
Banyan's Surfing Area	HI713314	K	NA	A	-	-	-	-	N	-		2,3,5	L
Hakalau Co. Park	HI138086	C	Wet	A	-	-	-	-	-	-		2,3	
Halape Shelter	HI645539	C	Dry	-	-	-	-	-	-	-		3	
Hapuna Beach St. Recreation Area	HI621002	K	NA	A	N	N	N	N	N	N		2,5	L
Hilo Bay (Boat Landing)	HIW00027	B	Wet	A	-	-	-	-	N	N		2,3,5	L
Hilo Bay (Canoe Beach)	HI315019	B	Wet	A	N	N	A	N	N	A		2,5	L
Hilo Bay (Coconut Isle)	HI977673	B	Wet	A	-	-	-	-	N	-		2,3,5	L
Hilo Bay (Exit of Ice Pond)	HI659453	B	Wet	A	N	N	A	N	A	A		2,5	L
Hilo Bay (Lighthouse)	HIW00028	B	Wet	N	A	N	N	N	N	A		2,5	L
Hilo Bay (Offshore)	HIW00031	B	Wet	-	-	N	N	-	N	N		3,5	L
Hilo Bay-inshore of breakwater and near shore waters from Wainaku to Paukaa	HIW00098	B	Wet	-	V	V	-	V	N	-		3,5	L
Holoholokai	HI582331	K	NA	A	-	-	-	-	N	-		2,3,5	L
Honaunau Bay	HIW00176	K	NA	-	-	-	-	-	-	-		3	
Honaunau Bay (2 Step)	HI246645	<b><u>B</u></b>	<b><u>Wet</u></b>	A	-	-	-	-	N	-		2,3,5	L
Honokohau Beach	HI315174	K	NA	-	N	N	N	N	N	A	PO <sub>4</sub> (N)	2,3,5	L
Honokohau Boat Harbor	HIW00099	B	Dry	-	-	-	-	-	-	-		3	
Honoli'i Beach Co. Park	HI857411	C	Wet	A	-	-	-	-	N	-		2,3,5	L
Ho'okena	HI152572	C	Dry	A	-	-	-	-	N	-		2,3,5	L
James Kealoha Park	HI670254	<b><u>C</u></b>	<b><u>Wet</u></b>	A	-	-	-	-	<b><u>N</u></b>	-		2,3	
Kahalu'u Beach Co. Park	HI013290	K	NA	A	-	-	-	-	N	-		2,3,5	L
Kahoiawa Bay	HIW00150	K	NA	-	N	A	A	A	N	A		2,3,5	L
Kahoiawa Bay-Makalawena	HIW00151	K	NA	-	N	A	A	A	N	A		2,3,5	L
Kahuwai Bay	HI990843	K	NA	-	-	-	-	-	-	-		3	

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HAWAII (BIG ISLAND) Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Kahuwai Bay-Mano Point	HIW00153	K	NA	-	N	A	A	N	<u>A</u>	A	PO <sub>4</sub> (N)	2,3,5	L
Kailua Bay	HI753566	K	NA	A	-	-	-	-	N	-		2,3,5	L
Kakapa Bay	HIW00152	K	NA	-	N	A	A	A	N	A		2,3,5	L
Ka Lae (South Point)	HI107517	C	Dry	-	-	-	-	-	-	-		3	
Kalapana Beach (new) (Harry K. Brown Beach Co. Park)	HI542822	C	Dry	A	-	-	-	-	-	-		2,3	
Kaluhika'a Beach	HI327989	K	NA	-	-	-	-	-	-	-		3	
Kamakaokahonu	HIW00032	K	NA	A	-	-	-	-	N	-		2,3,5	L
Kamakaokahonu (Kailua Pier A-1)	HI261474	<b><u>B</u></b>	<b><u>Wet</u></b>	A	-	-	-	N	<u>A</u>	-		2,3,5	L
Kamoa Point	HI602472	K	NA	-	-	-	-	-	-	-		3	
Kapoho Bay	HI391407	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Kapoho Beach Lots	HIW00196	C	Dry	A	-	-	-	-	-	-		2,3	
Kapoho Tidepools (Vacationland)	HI122881	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Kapu'a Bay	HIW00067	C	Dry	-	-	-	-	-	-	-		3	
Kauilii Point-Kapaa Beach Park	HIW00201	C	Dry	-	N	<u>N</u>	N	A	A	N		2,3,5	L
Kauilii Point-Kapaa Beach Park (Oceanic)	HIW00202	O	NA	-	N	A	A	N	N	N		2,3,5	L
Kauna'oa Beach	HI261869	K	NA	A	-	-	-	-	N	-		2,3,5	L
Ka'upulehu	HI770607	K	NA	A	-	-	-	-	-	-		2,3	
Kawa Bay	HI535602	C	Dry	-	-	-	-	-	-	-		3	
Kawaihae Harbor	HI978783	B	Dry	A	-	-	-	-	N	-		2,3,5	L
Kawaihae Harbor/Pelekane Bay	HIW00155	B	Dry	-	-	-	-	-	N	-		3,5	L
Keahole Point	HIW00203	K	NA	-	A	A	<u>N</u>	<u>A</u>	A	A	PO <sub>4</sub> (A)	2,3,5	L
Kealakekua Bay	HIW00149	K	NA	-	N	N	<u>N</u>	N	N	A	PO <sub>4</sub> (N)	2,3,5	L
Kealakekua Bay (off Curio Stand)	HIW00183	K	NA	A	-	-	-	-	N	-		2,3,5	L
Kealia Beach	HI514168	C	Dry	-	-	-	-	-	-	-		3	
Keauhou Bay (Kona)	HI713293	<b><u>B</u></b>	<b><u>Dry</u></b>	A	-	-	-	-	N	-		2,3,5	L
Keawaiki	HI929053	K	NA	-	-	-	-	-	-	-		3	
Ke'ei	HI858729	K	NA	-	-	-	-	-	-	-		3	

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HAWAII (BIG ISLAND) Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Kehena	HI459942	C	Dry	A	-	-	-	-	-	-		2,3	
Keokea Beach Co. Park	HI784200	C	Dry	-	-	-	-	-	-	-		3	
Keone'ele Cove	HI559410	<b><u>B</u></b>	<b><u>Wet</u></b>	A	-	-	-	-	-	-		2,3	
Kolekole Beach Co. Park	HI693485	C	Wet	A	-	-	-	-	N	-		2,3,5	L
Kuki'o Bay	HIW00154	K	NA	-	N	N	A	N	N	A	PO <sub>4</sub> (N)	2,3,5	L
Kulaimano	HIW00204	C	Wet	-	A	A	A	A	A	A		2,3	
Lapakahi St. Hist. Park	HI490010	C	Dry	-	-	-	-	-	-	-		3	
Laupahoehoe Beach Co. Park	HI380623	C	Wet	A	-	-	-	-	-	-		2,3	
Mahai'ula Bay	HI694255	K	NA	-	-	-	-	-	-	-		3	
Mahukona Beach Co. Park	HI273526	C	Dry	-	-	-	-	-	-	-		3	
Mahukona Harbor	HIW00197	C	Dry	-	N	N	N	<b><u>A</u></b>	<b><u>N</u></b>	N		2,3,5	L
Mahukona Harbor (Oceanic)	HIW00198	O	NA	-	N	A	N	N	N	N		2,3,5	L
Makalawena	HI901744	K	NA	-	-	-	-	-	-	-		3	
Makaohule Point-Kauilii Point	HIW00199	C	Dry	-	N	N	N	A	A	N		2,3,5	L
Makaohule Point-Kauilii Point (Oceanic)	HIW00200	O	NA	-	N	A	A	N	N	N		2,3,5	L
Makole'a Beach	HI223059	K	NA	-	-	-	-	-	-	-		3	
Manini Point Co. Park	HI379764	<b><u>B</u></b>	<b><u>Dry</u></b>	-	-	-	-	-	-	-		3	
Manini'owali	HI720408	K	NA	A	N	A	A	N	N	A	PO <sub>4</sub> (N)	2,5	L
Mauna Lani (Kalahuipua'a)	HI890924	K	NA	A	-	-	-	-	N	-		2,3,5	L
Mau'umae Beach	HI120357	K	NA	-	-	-	-	-	-	-		3	
Miloli'i Beach	HI470112	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Ninole	HI124561	C	Dry	-	-	-	-	-	-	-		3	
Ohai'ula Beach	HI143737	K	NA	-	-	-	-	-	-	-		3	
Old Kona Airport St. Recreation Area	HI256093	K	NA	A	-	-	-	-	-	-		2,3	
Onakahakaha Beach Co. Park	HI862286	C	Wet	A	-	-	-	-	N	-		2,3,5	L
Onakahakaha Beach Co. Park (Puhi Bay #3)	HIW00029	C	Wet	A	-	-	-	-	N	N		2,3,5	L
Paoao Point to Keawekaheka Point	HIW00145	K	NA	-	N	A	A	A	A	A	PO <sub>4</sub> (N)	2,3,5	L
Pahoehoe Beach Co. Park	HI935352	K	NA	-	-	-	-	-	-	-		3	

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HAWAII (BIG ISLAND) Marine Waters													
Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Papa'i (King's Landing)	HI112071	C	Dry	-	-	-	-	-	-	-		3	
Pelekane Bay	HI738158	K	NA	A	N	N	N	N	N	N		2,5	L
Pine Trees	HI320616	K	NA	A	N	A	A	A	N	A	PO <sub>4</sub> (A)	2,5	L
Pine Trees-Honokohau	HIW00146	K	NA	-	N	N	N	N	N	A	PO <sub>4</sub> (N)	2,3,5	L
Pohoiki Beach	HI316864	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Pololu Valley	HI183806	C	Dry	-	-	-	-	-	-	-		3	
Puako	HI668132	K	NA	A	-	-	-	-	N	-		2,3,5	L
Puako Bay	HIW00033	K	NA	A	-	-	-	-	-	-		2,3	
Pueo Bay	HI930479	K	NA	-	-	-	-	-	-	-		3	
Puhi Bay	HIW00206	C	Wet	A	A	N	A	A	A	A		2,5	L
Punalu'u	HI224651	C	Dry	A	-	-	-	-	-	-		2,3	
Pu'u'honua o Honaunau	HI478461	<b><u>B</u></b>	<b><u>Wet</u></b>	-	-	-	-	-	-	-		3	
Radio Bay	HI425303	<b><u>C</u></b>	<b><u>Wet</u></b>	A	-	-	-	-	-	-		2,3	
Road to the Sea	HI849236	C	Dry	-	-	-	-	-	-	-		3	
Spencer Beach Co. Park	HI936372	K	NA	A	-	-	-	-	N	N		2,3,5	L
Waialea Bay	HI381812	K	NA	-	-	-	-	-	-	-		3	
Waipahi Point	HIW00205	C	Wet	-	A	A	A	A	A	A		2,3	
Waipi'o Bay	HI534434	C	Wet	-	-	-	-	-	-	-		3	
Waiulaula	HI934020	K	NA	A	N	N	N	N	N	N		2,5	L
Waiulua Bay to Anaehoomalu Bay	HIW00148	K	NA	-	N	N	N	N	N	<u>N</u>	PO <sub>4</sub> (N)	<u>2,3,5</u>	L
Wawaloli Beach	HI643938	K	NA	A	-	-	-	-	N	-		2,3,5	L
Wawaloli Beach-Pine Trees	HIW00147	K	NA	-	N	A	A	A	N	A	PO <sub>4</sub> (N)	2,3,5	L
White Sands Beach Co. Park (Magic Sands)	HI436267	K	NA	A	-	-	-	-	N	N		2,3,5	L
Whittington Beach Co. Park	HI720900	C	Dry	A	-	-	-	-	-	-		2,3	

**Decision Codes:** - = insufficient data, A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), V = visual listing from 2001-2004, Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; prior assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*

## APPENDIX A: Data Sources

### **City and County of Honolulu (CCH)**

The CCH collects bacterial, nutrient and biogeochemical (turbidity, TSS and chlorophyll *a*) samples from shoreline, near shore, and offshore locations as part of their NPDES permit requirements for wastewater treatment plants (WWTP). Water quality data from control stations in receiving water bodies are assessed for the 2016 IR. The WWTPs are located in Waianae, Honouliuli, Sand Island, and Kailua (Mokapu).

### **Clean Water Branch (CWB)**

The CWB collects shoreline bacterial, nutrient and biogeochemical (turbidity, TSS, chlorophyll *a*) samples as part of EPA's BEACH program. The CWB monitoring and analysis section QA/QC is governed by the CWB Beach Monitoring and Coastal Chemistry Monitoring QAPP.

### **Discharge Monitoring Reports (DMRs)**

NPDES permitted facilities throughout the State (e.g. Sunrise Capital, Agribusiness Development Corp, Port Allen Generating Station, Wailua WWTP, Chevron Hawaii Refinery, East Honolulu WWTP, Fort Kamehameha WWTP, HECO, Kahului Generating Station, Kulaimano WWTP, Papaikou-Paukaa WWTP, Hilo WWTP and Keahole Point Fish) are required to monitor and submit bacterial, nutrient and biogeochemical (turbidity and chlorophyll *a*) data via DMRs. Water quality data from control stations in receiving water bodies are assessed for the 2016 IR. Discharge monitoring reports help provide additional water quality information to the monitoring and analysis program to ensure that Hawaii's water resources are protected and restored.

### **Environmental Assessment Company (EAC)**

EAC is a private research company headed by Richard Brock, PhD. EAC collects nutrient and biogeochemical (turbidity and chlorophyll *a*) samples for the south-southeastern coast of Lanai, and the western Kona coast of Hawaii. All data follow a prepared methodology and comply with the West Hawaii Coastal Monitoring Program Monitoring Protocol Guidelines (1992). Laboratory analysis follows Standard Methods (1999).

### **Marine Research Consultants (MRC)**

MRC is a private research company headed by Steve Dollar, PhD. MRC collects nutrient and biogeochemical (turbidity and chlorophyll *a*) samples for Haseko (Ewa), Inc. and Makena Resort Corporation to characterize coastal water quality (according to HAR §11-54-6), for Ocean Pointe (formerly the Ewa Marina) on Oahu and Makena Resort on Maui, respectively. All data follow a prepared sampling methodology and documented analysis methodology (Strickland and Parsons 1968, Grasshoff 1983), and utilize EPA rated laboratories (Marine Analytical Specialists).

### **Natural Energy Laboratory of Hawaii Authority (NELHA)**

NELHA is a state funded facility that provides the CWB with nutrient and biogeochemical (turbidity and chlorophyll *a*) data via their Annual Comprehensive Environmental Monitoring Report. The monitoring efforts fulfill regulatory requirements to ensure the protection of Keahole Point's environmental resources on Hawaii. NELHA has implemented the standard sampling procedure and analytical protocol of the August 31, 2004, HAR Ch. 11-54 for its quarterly ocean transect sampling program. The NELHA Water Quality Laboratory follows Standard Methods for the Examination of Water and Wastewater 20<sup>th</sup> Edition (Clesceri et al 1998) and EPA test methods for its analytical procedures.

### **Center for Biological Diversity (CBD)**

The Center for Biological Diversity submitted pH and microplastics data for consideration in the 2016 IR. The CWB has reviewed the data submittal and is not able to assess that information in the context of the IR at this time.

## REFERENCES

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Strickland J. D. H. and T. R. Parsons. 1968. *A practical handbook of sea water analysis*. Fisheries Research Board of Canada, Bull. 167. 311 pp.

U.S. EPA Watershed Branch. 2005. *Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act*.

West Hawaii Coastal Monitoring Task Force. 1992. *West Hawaii Coastal Monitoring Program Monitoring Protocol Guidelines*. 30pp.

## APPENDIX B: New Impairment Listings

**Table 11.** 2016 new impairment listings (303(d)) for CWB watershed DUs.

Island	CWB Watershed Decision Unit	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> + NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants
Kauai	<u>HANALEI WATERSHED</u>	<u>B</u>	<u>Wet</u>	<u>A<sub>T</sub></u>	:	:	:	:	<u>N<sub>T</sub></u>	:	
Kauai	<u>HANAPEPE WATERSHED</u>	<u>B</u>	<u>Wet</u>	:	<u>A</u>	<u>A</u>	<u>N</u>	<u>A</u>	:	<u>A</u>	
Kauai	<u>KALIHIWAI WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Kauai	<u>KAPAA WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Kauai	<u>KAUMAKANI WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Kauai	<u>KAWAILOA WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Kauai	<u>LIMAHULI WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Kauai	<u>MANOA WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Kauai	<u>NAWILIWILI WATERSHED</u>	<u>B</u>	<u>Dry</u>	<u>A</u>	<u>A</u>	<u>N</u>	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
Kauai	<u>WAIKOMO WATERSHED</u>	<u>C</u>	<u>Dry</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Kauai	<u>WAIOLI WATERSHED</u>	<u>B</u>	<u>Wet</u>	<u>A<sub>T</sub></u>	:	:	:	:	<u>N<sub>T</sub></u>	:	
Oahu	<u>ALA WAI WATERSHED</u>	<u>C</u>	:	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>ANAHULU WATERSHED</u>	<u>B</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>HANAUMA WATERSHED</u>	<u>B</u>	<u>Dry</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>KAELEPULU WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>KALOI WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>KAHAWAI WATERSHED</u>	<u>C</u>	:	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>KAUPUNI WATERSHED</u>	<u>B</u>	<u>Dry</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>KEAMANE WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>KOKO CRATER WATERSHED</u>	<u>C</u>	<u>Dry</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	
Oahu	<u>KUALOA WATERSHED</u>	<u>C</u>	<u>Wet</u>	<u>A</u>	:	:	:	:	<u>N</u>	:	

New watershed assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*

Island	CWB Watershed Decision Unit	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> + NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants
Oahu	<u><b>MAILILI WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Oahu	<u><b>MAKAHA WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Oahu	<u><b>MAKAIWA WATERSHED</b></u>	<u><b>B</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Oahu	<u><b>MAKAPUU WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Oahu	<u><b>NANAKULI WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Oahu	<u><b>PAUMALU WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Oahu	<u><b>WAIMANALO WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Wet</b></u>	<u><b>A</b></u>	<u><b>A</b></u>	<u><b>A</b></u>	<u><b>N</b></u>	<u><b>A</b></u>	<u><b>N</b></u>	<u><b>A</b></u>	
Oahu	<u><b>WAIMEA WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Wet</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>HAPAPA WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>HONOKAHUA WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>HONOKOWAI WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>HONOLUA WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>IAO WATERSHED</b></u>	<u><b>B</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>KAHANA WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>N</b></u>	<u><b>N</b></u>	<u><b>N</b></u>	<u><b>N</b></u>	<u><b>N</b></u>	<u><b>N</b></u>	
Maui	<u><b>KAILUA GULCH WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>LAUNIUPOKO WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>POHAKEA WATERSHED</b></u>	<u><b>B</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	
Maui	<u><b>WAHIKULI WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Wet</b></u>	<u><b>A</b></u>	<u><b>A</b></u>	<u><b>N</b></u>	<u><b>N</b></u>	<u><b>A</b></u>	<u><b>N</b></u>	<u><b>A</b></u>	
Maui	<u><b>WAILEA WATERSHED</b></u>	<u><b>C</b></u>	<u><b>Dry</b></u>	<u><b>A</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>:</b></u>	<u><b>N</b></u>	<u><b>:</b></u>	

New watershed assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*

**Table 12.** 2016 new impairment listings (303(d)) for marine water bodies not associated with a watershed.

Island	Scopes of Assessment Not Associated with Watershed	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> + NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants
Kauai	Mana Point	C	Dry	-	<u>N</u>	A	<u>N</u>	A	A	<u>N</u>	
Kauai	<b><i><u>Pacific Missile Range Facility (Open Coastal)</u></i></b>	<u>C</u>	<b><i><u>Dry</u></i></b>	<b><i><u>-</u></i></b>	<u>A</u>	<u>A</u>	<u>N</u>	<u>A</u>	<b><i><u>:</u></i></b>	<u>N</u>	
Kauai	<b><i><u>Wailua (Open Coastal)</u></i></b>	<u>C</u>	<b><i><u>Wet</u></i></b>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>N</u>	
Oahu	Kailua Bay (Open Coastal)	C	Dry	A	A	A	<u>N</u>	A	A	A	
Oahu	Mamala Bay (Fort Kamehameha Offshore)	C	Wet	-	A	A	A	A	A	<u>N</u>	
Oahu	Ocean Pointe C	C	Wet	-	A	A	A	A	A	<u>N</u>	
Oahu	Pokai Bay (Open Coastal)	C	Dry	A	A	A	A	A	<u>N</u>	A	
Oahu	Sandy Beach (Open Coastal)	C	Dry	-	A	A	<u>N</u>	A	A	<u>N</u>	

Prior assessments confirmed with new data are shaded; *category changes are bolded, italicized, underlined & shaded.*



