

Pearl Harbor Water Shortage Plan Update

Commission on Water Resource Management Meeting

August 17, 2021

Background

- Pearl Harbor Water Shortage Plan adopted on August 18, 2020
<https://files.hawaii.gov/dlnr/cwrmsubmittal/2020/sb20200818C1.pdf>
- Adopted plan established permit classification system and actions to be implemented in the event of a water shortage
- Commissioners requested:
 - Staff reach out to the public and report back to the Commission on any proposed revisions to the plan in one year

Water Shortage Stages

1. Watch



2. Alert



3. Warning

Water Shortage Stages

Water Shortage Condition

WATER SHORTAGE
WATCH

Trigger

USDA Drought Declaration; or

-1 standard deviation from average water levels in one or more CWRM Deep Monitor Wells for 2 quarterly measurements

Action

Joint “Call for Water Conservation” press release with BWS; and

Increase enforcement of water use reporting; and

Increase monitoring frequency from quarterly to monthly at CWRM DMWs; and

Begin regular coordination meetings with BWS, Navy, DOH and others

Water Shortage Stages

Water Shortage Condition

Trigger

Action

BWS declaration of low groundwater conditions; or

-2 standard deviation from average water levels in one or more CWRM Deep Monitor Wells for 3 monthly measurements

WUP holders in the affected ASA to begin implementing their individual water shortage plans; and

CWRM staff to begin emergency rulemaking process to declare a water shortage; and

Continued increase of water use reporting enforcement and groundwater monitoring; and

Continued coordination with entities identified in the water shortage watch stage

**WATER SHORTAGE
ALERT**

Water Shortage Stages

Water Shortage Condition

**WATER SHORTAGE
WARNING**

Trigger

-3 standard deviation from average water levels in one or more CWRM Deep Monitor Wells for 2 monthly measurements

Action

CWRM to complete emergency rulemaking process to declare a water shortage; and

CWRM to require permit holders to reduce their pumpage according to the regional water shortage plan permit classification scheme based on the permit holders last reported monthly pumpage prior to the Stage 2 Water Shortage being declared; and

Continued increase of water use reporting enforcement and groundwater monitoring; and

Continued coordination with entities identified in the water shortage watch stage

Permit Classification Scheme

Priority Level	Permit Classification
1	Domestic
	Habitat Maintenance
2	Municipal
	Military
3	Agricultural
	Industrial
	Golf Course

Stage	Cutback
1. Water Shortage Watch	0% cutbacks
2. Water Shortage Alert	Follows percent reduction indicated in individual water shortage plan (IWSP); or 5% for permit holders who have not submitted a plan or indicated less than 5% reductions
3. Water Shortage Warning	Mandatory percent reductions based on permit classification scheme Priority 1: Follow IWSP Priority 2: 15% reduction Priority 3: 20% reduction

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Post- Adoption Actions by CWRM Staff

Meetings with largest water user: Honolulu Board of Water Supply

Extended the comment period

Requesting meeting with stakeholders based on comment letter received

Investigated current landowner/well owner contact information

Began drafting letters, notices, etc. needed to distribute in the event of water shortage conditions

Continue to collect monitoring data from the CWRM deep monitor well network in Pearl Harbor

Created online map with updated well trigger data



Discussion of Current Data

- Online map of water shortage triggers can be found here: <https://arcg.is/1vfef80>
- Presentation of groundwater monitoring data by head Geologist Patrick Casey

Water Use by Category March 2021

