



# Ke Kahawai Pono

"The trustee who oversees the rightful sharing of water."

## Online Water Use Reporting

**1st Annual Joint State Water Conference  
January 14-18, 2013**

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Hydrologic Program Manager  
Commission on Water Resource Management  
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# *Ke Kahawai Pono*

*"The trustee who oversees the rightful sharing of water."*



# Training Outline

Background

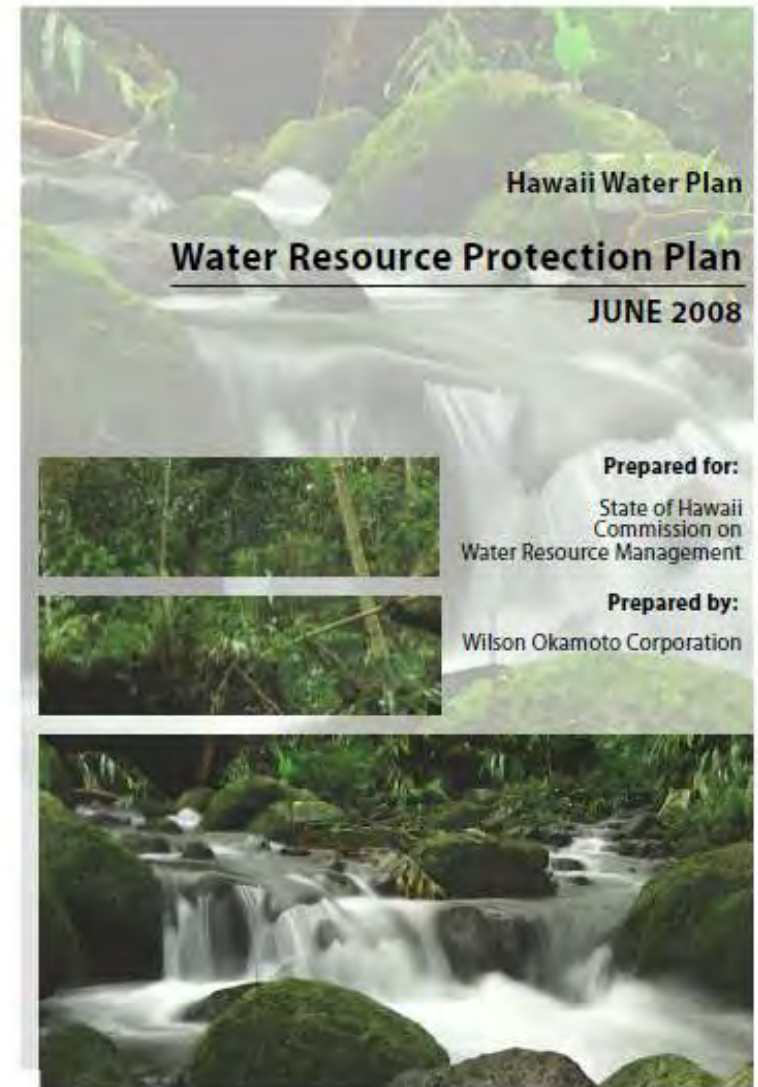
Current

Online Water Use Reporting

# Online Water Use Reporting

## Background

- WRRP 2008 set sustainable yields statewide
- HAR 13-168-7 requires all sources to report
- Reporting compliance



# Online Water Use Reporting

## Background

- WRRP 2008 set sustainable yields statewide
- HAR 13-168-7 requires all sources to report
- Reporting compliance

§13-168-7 Report of water use. (a) The owner or operator of any well or stream diversion works from which water is being used shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage on a monthly (calendar or work schedule) basis. If a well or stream diversion works is one of a battery of interconnected water sources, a centralized measuring device or facility may be approved by the commission.

(b) The owner or operator of any well or stream diversion works or battery of such water sources shall file a report of total water usage on a regular monthly (calendar or work schedule) basis to the commission on forms provided by the commission on or before the end of the month following the month for which water usage is to be reported. The reports may include other use-related information such as type of use, salinity, and water level, as may be deemed appropriate and reasonable by the commission.

(c) At the discretion of the commission, requirements for measuring and reporting monthly water usage may be lessened, modified, or exempted for owners or operators of small, individual wells or stream diversion works. The lessening, modification, or exemption of such requirements shall be approved, disapproved, or otherwise decided by the commission on a case-by-case basis. [Eff. MAY 27 1988 ]  
(Auth: HRS §174C-8) (Imp: HRS §§91-2, 174C-50, 174C-82)

# Online Water Use Reporting

## Background

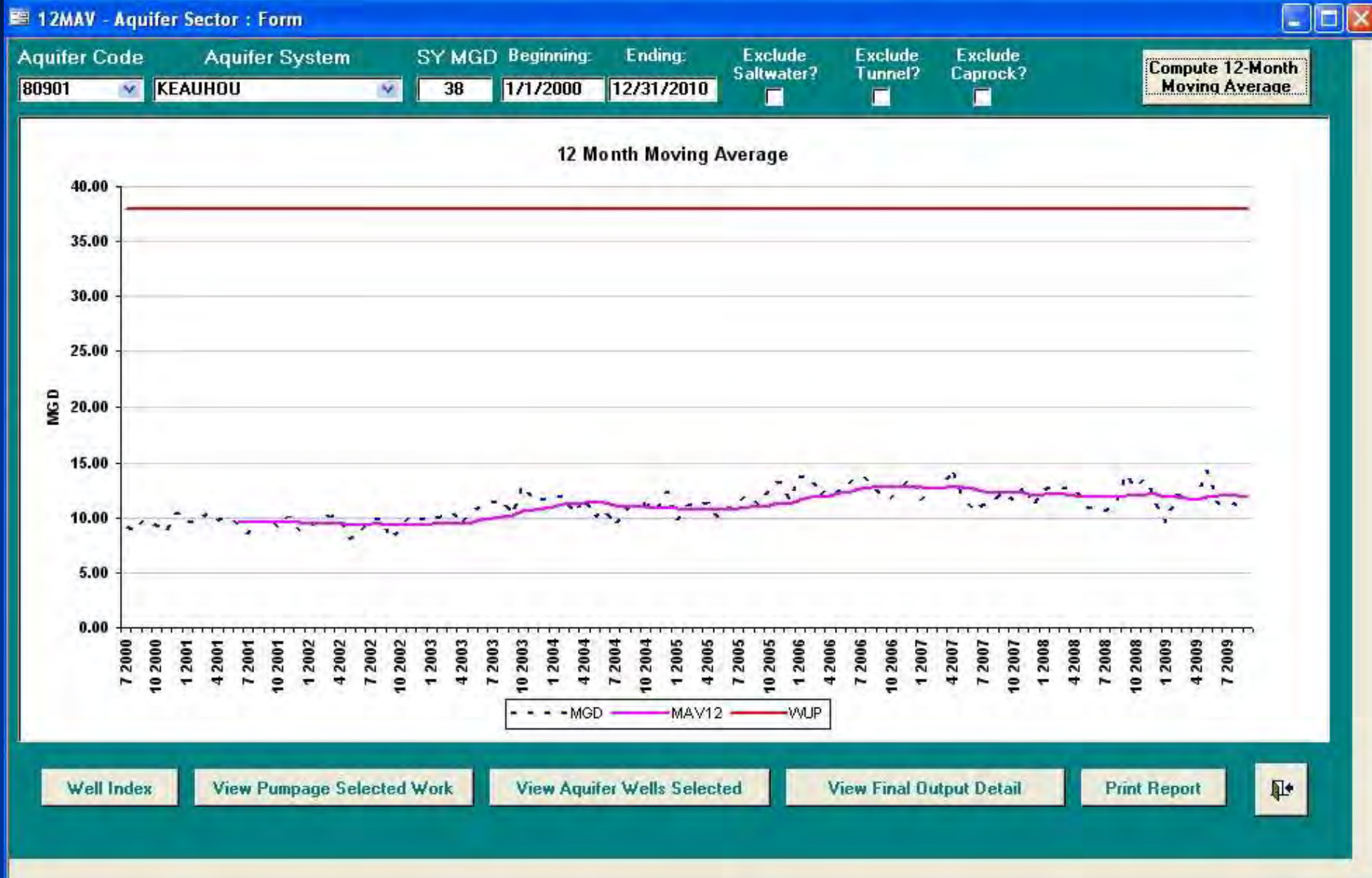
### *WATER RESOURCE PROTECTION PLAN*

### Section 6

Table 6-2: **Percent of Wells** Reporting Water Use

Island	# Wells Reported	Total # Production Wells	Percent Reporting	Total # Production Wells >25 gpm	Percent Reporting
Kauai	59	228	26%	130	45%
Oahu	237	948	25%	379	63%
Molokai	17	99	17%	34	50%
Lanai	11	16	69%	12	92%
Maui	119	450	26%	191	62%
Hawaii	130	400	33%	204	64%
<b>TOTAL</b>	<b>573</b>	<b>2141</b>		<b>950</b>	

# Online Water Use Reporting – former system



# Online Water Use Reporting

Current 4,653 wells as of Jan 11, 2013

## WATER RESOURCE PROTECTION PLAN

## Section 6

Table 6-2: Percent of Wells Reporting Water Use

Island	# Wells Reported	Total # Production Wells	Percent Reporting	Total # Production Wells >25 gpm	Percent Reporting
Kauai	59	228 <b>291</b>	26% ↓	130	45%
Oahu	237	948 <b>995</b>	25% ↓	379	63%
Molokai	17	99 <b>111</b>	17% ↓	34	50%
Lanai	11	16 <b>16</b>	69%	12	92%
Maui	119	450 <b>570</b>	26% ↓	191	62%
Hawaii	130	400 <b>669</b>	33% ↓	204	64%
<b>TOTAL</b>	<b>573</b>	<b>2141 2,653</b>		<b>950</b>	



# Online Water Use Reporting

Current 4,653 wells as of Jan 11, 2013

## Section 6

## WATER RESOURCE PROTECTION PLAN

Table 6-3: Summary of 2005 Reported Ground Water Use<sup>1</sup>

Island	Use Category (mgd)						Island Total
	Agriculture	Domestic	Industrial	Irrigation	Military	Municipal	
Kauai	0	0	0	0.094	0	11.454 <sup>2</sup>	11.548
Oahu <sup>3</sup>	6.099	0.289	4.893	6.740	26.352	149.389	193.762
Molokai	0.108	0	0	0.856	0	1.878	2.842
Lanai	0	0	0	0.717	0	1.073	1.79
Maui <sup>4</sup>	48.134	0.001	1.683	9.611	0	30.172	89.601
Hawaii	0.770	0.174	46.364	7.505	0	37.818	92.631
<b>Use Total</b>	<b>55.111</b>	<b>0.464</b>	<b>52.94</b>	<b>25.523</b>	<b>26.352</b>	<b>231.784</b>	<b>392.174</b>

1. For all ground water sources, including saltwater and caprock sources.

2. Kekaha Aquifer System Area pumpage as of 11/04.

3. Ewa Caprock Aquifer Sector Area pumpage as of 12/04.

4. Pumpage data period varies (see footnotes for Table 6-7: Existing Demands by Aquifer System, Island of Maui).

# Online Water Use Reporting

## Current Surface Water

Table 6-4: Summary of Reported Surface Water Use

Island	Total (mgd) <sup>1</sup>
Kauai	0.000
Oahu	0.000
Molokai <sup>2</sup>	0.660
Lanai	0.000
Maui <sup>3</sup>	70.282
Hawaii	0.000

<sup>1</sup> Total of computed 12-month moving average for August 2004 to July 2005.

<sup>2</sup> Includes Molokai Ranch.

<sup>3</sup> Includes Wailuku Water Company and Launiupoko Water Company.

# Online Water Use Reporting

## Current - Summary

- $\frac{1}{4}$  to  $\frac{1}{3}$  known production wells reporting
- Large GW users are reporting, small users not
- 858 Unused wells statewide – not sure of status
- Surface water reporting almost non-existent

# Online Water Use Reporting

## New Direction

- ✓ Since August 2008 working with Oceanit Laboratories, Inc. to update databases & online water use reporting
- ✓ CWRM has expended \$245,000 with matching funds from the Army Corp of Engineers (\$200,000) under Molokai Water Resources Study
- ✓ Started beta testing actual pumpage reporters on January 2, 2013 into our Water Resource Information System - WRIMS



# Online Water Use Reporting

The screenshot shows a web browser window with the following elements:

- Browser menu: File, Edit, View, Favorites, Tools, Help
- Search bar: Find: seal
- Page header: Hawaii State Water Use Reporting, Commission on Water Resource Management (CWRM), Department of Land and Natural Resources, State of Hawaii. Includes a logo and a background image of a stream with the text "Ke Kahuwar".
- Log In form:
  - Log In (title)
  - User Name: [input field]
  - Password: [input field]
  - Remember me next time.
  - Log In (button)
  - [Forgot Password?](#)
- Text: [Contact us](#) for help or login problems.

- ✓ Ground Water
- ✓ Surface Water

# Online Water Use Reporting



Ground Water

Action

- [Submit New Water Use Report](#)
- [Change Password](#)
- [Submit New Water Use Report in Excel Format](#)
- [Download Template Excel Sheet](#)

Insert directly online

Water Use Report

Start Date	End Date	Date Submit	Wells Reported Count	Total (MG)	MAX Chloride (mg/L)	Memo
<a href="#">06/01/2012</a>	06/30/2012	10/03/2012	109	4540.024		
<a href="#">06/01/2012</a>	08/31/2012	11/27/2012	3	22.557		
<a href="#">05/01/2012</a>	05/31/2012	10/03/2012	109	4568.592		
<a href="#">04/01/2012</a>	04/30/2012	10/03/2012	109	4147.689		
<a href="#">03/01/2012</a>	03/31/2012	10/03/2012	109	3952.039		
<a href="#">02/01/2012</a>	02/29/2012	10/03/2012	109	3907.825		
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<a href="#">01/01/2012</a>	01/31/2012	10/03/2012	109	4215.711		
<a href="#">12/01/2011</a>	12/31/2011	10/03/2012	109	3966.207		
<a href="#">11/01/2011</a>	11/30/2011	10/03/2012	109	4112.025		
<a href="#">10/01/2011</a>	10/31/2011	10/03/2012	109	4260.038		
<a href="#">09/01/2011</a>	09/30/2011	10/03/2012	109	4452.734		
<a href="#">08/01/2011</a>	08/31/2011	10/03/2012	109	4688.802		
<a href="#">07/01/2011</a>	06/30/2012	11/23/2012	24	1628.325	21993.0	
<a href="#">07/01/2011</a>	07/31/2011	10/03/2012	109	4521.833		
<a href="#">06/01/2011</a>	06/30/2011	10/03/2012	109	4114.558		
<a href="#">05/01/2011</a>	05/31/2011	10/03/2012	109	4081.774		
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<a href="#">02/01/2011</a>	02/28/2011	10/03/2012	109	3593.971		
<a href="#">01/01/2011</a>	01/31/2011	10/03/2012	109	3917.467		
<a href="#">12/01/2010</a>	12/31/2010	10/04/2012	97	3980.702		
<a href="#">11/01/2010</a>	11/30/2010	10/04/2012	97	4244.745		
<a href="#">10/01/2010</a>	10/31/2010	10/04/2012	97	4674.425		
<a href="#">09/01/2010</a>	09/30/2010	10/04/2012	97	4717.262		

Wells Reporting

Well Number	Well Name	Use	Metered	Last Reported Dates	Last Pumpage (MG)	Last Chloride (mg/L)	Pumpage Graph
3-1744-004	Pia	UNU		-			<a href="#">View Graph</a>
3-1745-001	Wailupe I	MUNCO		07/01/2012 - 07/31/2012	0.000		<a href="#">View Graph</a>
3-1746-001	Ainakoa	MUNCO		07/01/2012 - 07/31/2012	7.219		<a href="#">View Graph</a>



# Online Water Use Reporting



Hawaii State Water Use Reporting  
 Commission on Water Resource Management (CWRM)  
 Department of Land and Natural Resources, State of Hawaii

*Ke Kahuwai Pono*

Logged in as: 001362 Board of Water Supply, BWS

[Logout](#)

## Ground Water

### Action

- [Submit New Water Use Report](#)
- [Change Password](#)
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# Offline worksheet

### Water Use Report

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# Online Water Use Reporting

20130111163757.xls [Protected View] [Compatibility Mode] - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

Protected View This file originated from an Internet location and might be unsafe. Click for more details. [Enable Editing](#)

A1 Well No.

	A	B	C	D	E	F	G
1	Well No.	Well Name	Start Date	End Date	Gallons	Chlorides (PPM)	Waterlevel (MSL)
2	3-1744-004	Pia					
3	3-1745-001	Wailupe I					
4	3-1746-001	Ainakoa					
5	3-1746-002	Waialae Iki					
6	3-1746-003	Kapakahi					
7	3-1746-004	Aina Koa II					
8	3-1747-001	Waialae TH					
9	3-1747-002	Waialae Shaft					
10	3-1747-003	Waialae Nui					
11	3-1747-005	Waialae West					
12	3-1748-003	Kaimuki Pump Station					
13	3-1748-004	Kaimuki Pump Station					
14	3-1748-005	Kaimuki Pump Station					
15	3-1748-006	Kaimuki Pump Station					
16	3-1748-007	Kaimuki Pump Station					
17	3-1748-008	Kaimuki Pump Station					
18	3-1748-009	Kaimuki Pump Station					
19	3-1748-010	Kaimuki Pump Station					
20	3-1748-013	Manoa I					
21	3-1752-001	Cooling 1					
22	3-1752-002	Cooling 2					
23	3-1805-013	Kalaeloa Desalt 1					
24	3-1805-014	Kalaeloa Desalt 2					
25	3-1805-015	Kalaeloa Basalt					
26	3-1843-001	Kuliouou					
27	3-1845-001	Wailupe II					
28	3-1847-001	Palolo Well					
29	3-1847-002	Palolo Addition					
30	3-1849-013	Wilder Ave. P3					
31	3-1849-014	Wilder Ave. P1					
32	3-1849-015	Wilder Ave. P4					
33	3-1849-016	Wilder Ave. P2					
34	3-1850-003	Makiki					
35	3-1851-012	Beretania P Station					
36	3-1851-013	Beretania P Station					
37	3-1851-031	Beretania P Station					
38	3-1851-033	Beretania P Station					
39	3-1851-034	Beretania P Station					
40	3-1851-035	Beretania P Station					
41	3-1851-067	Beretania Obs					
42	3-1851-074	Beretania Sta 1					
43	3-1851-075	Beretania Station 2					
44	3-1905-007	Caprock 2					
45	3-1905-008	Kapolei Irr 1					
46	3-1905-010	Kapolei Irr 2					
47	3-1942-001	Waimanalo III					
48	3-1943-001	Waimanalo II					
49	3-1946-001	Palolo Tunnel					
50	3-1947-002	Manoa Tunnel 3					
51	3-1948-001	Manoa II					

# Online Water Use Reporting



Hawaii State Water Use Reporting  
Commission on Water Resource Management (CWRM)  
Department of Land and Natural Resources, State of Hawaii

Ke Kahuwai Pono

Logged in as: 001362 Board of Water Supply, BWS

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Ground Water

Action

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## Upload worksheet

Water Use Report

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Wells Reporting

Well Number	Well Name	Use	Metered	Last Reported Dates	Last Pumpage (MG)	Last Chloride (mg/L)	Pumpage Graph
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3-1745-001	Wailupe I	MUNCO		07/01/2012 - 07/31/2012	0.000		<a href="#">View Graph</a>
3-1746-001	Ainakoa	MUNCO		07/01/2012 - 07/31/2012	7.219		<a href="#">View Graph</a>

# Online Water Use Reporting

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x Find: seal Previous Next Options

 **Hawaii State Water Use Reporting**  
Commission on Water Resource Management (CWRM)  
Department of Land and Natural Resources, State of Hawaii

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## Submit New Water Use Report in Excel Format

[Back to Home](#)

Before you upload, make sure of the following

1. Well Number must be the Full Well Number in the format **X-XXXX-XXX**
2. Start Date & End Date must be a date in the format **MM/DD/YYYY**
3. Mg. Chlorides(PPM), Waterlevel (MSL) must be a **Numeric value**

Excel File:

Notes:

Import successful!

or

Should have useful error check messages – if not can call or email us

# Online Water Use Reporting



Ground Water

Action

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Change password

Water Use Report

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# Online Water Use Reporting

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 **Hawaii State Water Use Reporting**  
Commission on Water Resource Management (CWRM)  
Department of Land and Natural Resources, State of Hawaii

*Ke Kahuwai*

**Log In**

User Name:

Password:

Remember me next time.

**Forgot Password?**

[Contact us](#) for help or login problems.

---

**Forgot Password?**

Username:

Email:

**This email address does not match the registered email address with the Commission of Water Resources.**

# Online Water Use Reporting



**Hawaii State Water Use Reporting**  
 Commission on Water Resource Management (CWRM)  
 Department of Land and Natural Resources, State of Hawaii

*Ke Kahuwai Pono*

Logged in as: 001362 Board of Water Supply, BWS

[Logout](#)

**Ground Water**

Action

- [Submit New Water Use Report](#)
- [Change Password](#)
- [Submit New Water Use Report in Excel Format](#)
- [Download Template Excel Sheet](#)

Water Use Report

Start Date	End Date	Date Submit	Wells Reported Count	Total (MG)	MAX Chloride (mg/L)	Memo
06/01/2012	06/30/2012	10/03/2012	109	4540.024		
06/01/2012	08/31/2012	11/27/2012	3	22.557		
05/01/2012	05/31/2012	10/03/2012	109	4568.592		
04/01/2012	04/30/2012	10/03/2012	109	4147.689		
03/01/2012	03/31/2012	10/03/2012	109	3952.039		
02/01/2012	02/29/2012	10/03/2012	109	3907.825		
02/01/2012	05/31/2012	11/15/2012	2	13.593		
01/01/2012	01/31/2012	10/03/2012	109	4215.711		
12/01/2011	12/31/2011	10/03/2012	109	3966.207		
11/01/2011	11/30/2011	10/03/2012	109	4112.025		
10/01/2011	10/31/2011	10/03/2012	109	4260.038		
09/01/2011	09/30/2011	10/03/2012	109	4452.734		
08/01/2011	08/31/2011	10/03/2012	109	4688.802		
07/01/2011	06/30/2012	11/23/2012	24	1628.325	21993.0	
07/01/2011	07/31/2011	10/03/2012	109	4521.833		
06/01/2011	06/30/2011	10/03/2012	109	4114.558		
05/01/2011	05/31/2011	10/03/2012	109	4081.774		
04/01/2011	04/30/2011	10/03/2012	109	4097.135		
03/01/2011	03/31/2011	10/03/2012	109	4052.128		
02/01/2011	02/28/2011	10/03/2012	109	3593.971		
01/01/2011	01/31/2011	10/03/2012	109	3917.467		
12/01/2010	12/31/2010	10/04/2012	97	3980.702		
11/01/2010	11/30/2010	10/04/2012	97	4244.745		
10/01/2010	10/31/2010	10/04/2012	97	4674.425		
09/01/2010	09/30/2010	10/04/2012	97	4717.262		

Wells Reporting

Well Number	Well Name	Use	Metered	Last Reported Dates	Last Pumpage (MG)	Last Chloride (mg/L)	Pumpage Graph
3-1744-004	Pia	UNU		-			<a href="#">View Graph</a>
3-1745-001	Wailupe I	MUNCO		07/01/2012 - 07/31/2012	0.000		<a href="#">View Graph</a>
3-1746-001	Ainakoa	MUNCO		07/01/2012 - 07/31/2012	7.219		<a href="#">View Graph</a>

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Ground Water

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<a href="#">12/01/2011</a>	12/31/2011	10/03/2012	109	3966.207		
<a href="#">11/01/2011</a>	11/30/2011	10/03/2012	109	4112.025		
<a href="#">10/01/2011</a>	10/31/2011	10/03/2012	109	4260.038		
<a href="#">09/01/2011</a>	09/30/2011	10/03/2012	109	4452.734		
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<a href="#">07/01/2011</a>	07/31/2011	10/03/2012	109	4521.833		
<a href="#">06/01/2011</a>	06/30/2011	10/03/2012	109	4114.558		
<a href="#">05/01/2011</a>	05/31/2011	10/03/2012	109	4081.774		
<a href="#">04/01/2011</a>	04/30/2011	10/03/2012	109	4097.135		
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<a href="#">12/01/2010</a>	12/31/2010	10/04/2012	97	3980.702		
<a href="#">11/01/2010</a>	11/30/2010	10/04/2012	97	4244.745		
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Wells Reporting

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# Online Water Use Reporting



Hawaii State Water Use Reporting  
Commission on Water Resource Management (CWRM)  
Department of Land and Natural Resources, State of Hawaii

*Ke Kahuwai Pono*

Monthly Pumpage (mgd) for WUP #00004





# Online Water Use Reporting

CWRM - Home - Windows Internet Explorer

http://10.4.104.60/cwrm/Default.aspx

File Edit View Favorites Tools Help

Secure Search McAfee

Google dlri - index\_html ISLAND 98.5 Hawaiian Style... Current update of the erupt... Microsoft

CWRM - Home

**WRIMS**  
Water Resource Information Management System  
Commission on Water Resource Management

Ke Kahuwai Pono

Main Menu | Contacts | Well Index | Well Application | SWIM System | General Files | Reports | Converter | Links | ver\_2\_000

Home

Search

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Water Use Permit	Reports	Surface Water Gage	Ground Water Use Report
Complaint	General Files	Surface Water Use Report	Well Application
Violation	Converter	Water System	Well Images
Admin	Registration	Surface Water Hydrologic Unit	Aquifer System (GWHU)
		IFS	
		Diversion	

Local intranet 100%

# Training Outline

Background

Current

Online Water Use Reporting

Schedule

- ✓ Complete Beta Test phase by end of February
- ✓ Have all large utilities reporting by May
- ✓ Have all ground water management area users reporting by July
- ✓ Begin rest of the state starting September



# *Ke Kahawai Pono*

"The trustee who oversees the rightful sharing of water."

## Online Water Use Reporting

# Mahalo

