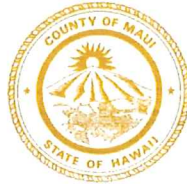


**RICHARD T. BISSEN, JR.**  
Mayor

**JOSIAH K. NISHITA**  
Managing Director

**JOHN STUFFLEBEAN, P.E.**  
Director

**JAMES A. LANDGRAF**  
Deputy Director



**DEPARTMENT OF WATER SUPPLY**  
COUNTY OF MAUI  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793  
<http://www.mauicounty.gov/water>

## **DEPARTMENT REPORTS** for April 2024

### **Director's Report-Oral**

### **Engineering Division-Oral** Monthly Report

### **Plant Operations Division** Monthly Report Monthly Source Report

### **Field Operations** Monthly Status Report

### **Water Resources and Planning** Groundwater Use Report for Maui and Molokai

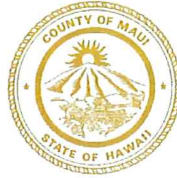
*"By Water All Things Find Life"*

**RICHARD T. BISSEN, JR.**  
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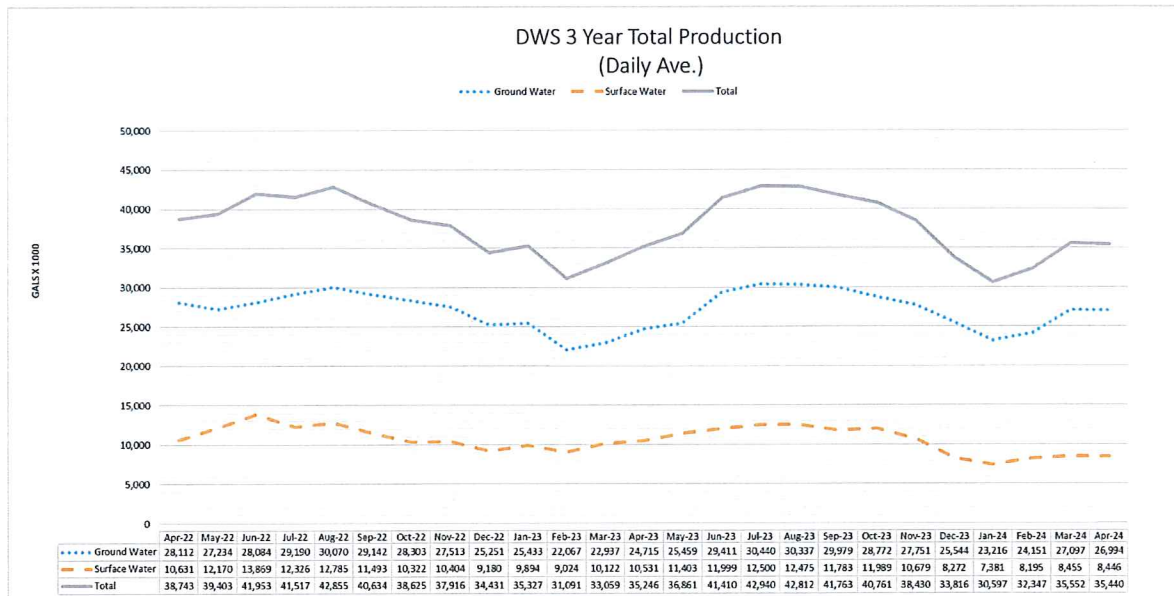
**DEPARTMENT OF WATER SUPPLY**  
COUNTY OF MAUI  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAI'I 96793  
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To: John Stufflebean, P.E. Director  
James A. Landgraf Deputy Director

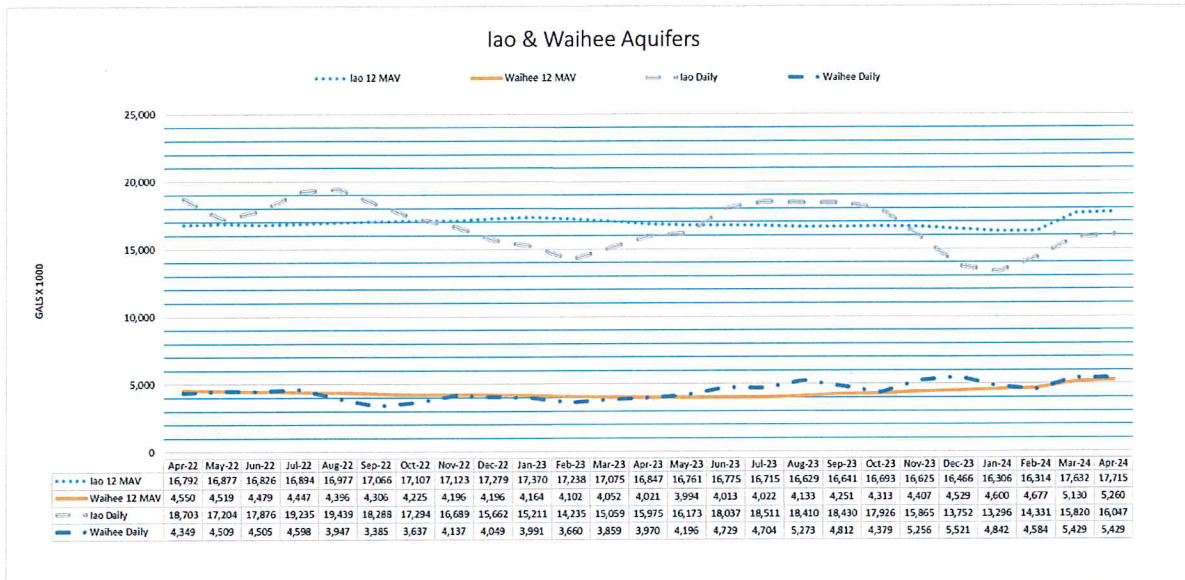
From: Dean Tanimoto Water Plant Division Chief  
Digitally signed by Dean K. Tanimoto  
(808)-270-7551 dean.tanimoto@co.maui.hi.us  
Date: 2024.05.03 09:00:13 -10'00'

Date: May 3, 2024

Subject: Plant Operations Division Monthly Report April 2024



*"By Water All Things Find Life"*



Note: Iao Aquifer includes confined sources - Iao Tunnel and the Kepaniwai Well.

### On-going Projects/Issues Etc.

- Makawao phase 10 CIP electrical/SCADA upgrade project on-going.
- Johnson Controls for Maui County's energy project on-going, completing base yard lighting.
- Emergency Wildfire response special water quality chemistry sampling with assistance / guidance of DOH SDWB and EPA Region 9.
- Kaupakalua well ongoing CIP- well and booster transition to new electrical equipment.
- Assist consultant Carollo Engineers in water systems for condition assessment project
- Waihee well 578 Replacement complete, testing, flushing and sampling started.
- Assist Carollo with instrument monitoring installation for hydraulic model project.
- Pookela Well B SCADA integration.
- Kualapuu well motor repair, emergency interconnect from DHHL (Dept of Hawaiian Home Lands)
- Haiku well placed back online

### **Acronyms**

CIP - Capital Improvement Project  
 DOH - State of Hawaii, Department of Health  
 EPA - United States Environmental Protection Agency  
 OSG - On site generation (liquid chlorine)  
 SDWB - DOH Safe Drinking Water Branch  
 SCADA - Supervisory Control and Data Acquisition  
 UPS - Uninterruptible Power Supply  
 UV - Ultraviolet treatment  
 VFD - Variable Frequency Drive  
 WTP - Water Treatment Plant

## Water Quality Monthly Status Report-April 2024

- Collected 1466 samples in April 2024
  - Analyzed in-house
    - Compliance Bacti-263
    - Non-Compliance Bacti-88
    - Chlorine Residual-761
    - Chlorides-52
    - pH/Conductivity-164
    - NTU (Turbidity)-7
  - Sent out for analysis
    - EDB (1,2-dibromoethane)/DBCP (1,2-dibromo-3-chloropropane)/TCP (1,2,3-trichloropropane)-14
    - NPDES (National Pollutant Discharge Elimination System) Chemistry-4
    - NPDES Bioassay-1
    - TOC (Total Organic Carbon)-29
    - DBP Samples (Disinfection By-Products)-24
- Collaborated with Hawaii State DOH SDWB (Department of Health Safe Drinking Water Branch and US EPA (United States Environmental Protection Agency) for Emergency Wildfire response and recovery
  - Collected special chemistry samples for wildfire long term monitoring-87
  - Analyzed Lahaina distribution samples collected by the US EPA mission assignment team for Total coliform and E coli
- Collaborated with US EPA, US Army Corp of Engineers, and Hawaii State DOE (Department of Education) for temporary Lahaina school
  - Collected and analyzed bacti samples for Total coliform and E coli
  - Collected and sent out chemistry samples for analysis of VOC (volatile organic chemistry) and SVOC (semi volatile organic chemistry)
  - Analyzed Free residual chlorine after flush out of lines
- Prepared and submitted March 2024 Drinking Water reports and Quarter 1-2024 to Hawaii State DOH SDWB for
  - Bacti-All parameters within MCL (Maximum Contaminant Level)
    - RTCR (Revised Total Coliform Rule) summary
    - HPCs (Heterotrophic Plate Counts) for filtered systems
    - Ualapue Wells
  - Chemistry
    - Ualapue Wells
    - Iao TP Source water TOC
    - Disinfection Residuals Quarterly Report
- EEA consultants conducted annual virtual training in Ethics/Data Integrity for laboratory and SCADA staff as required for TNI (The NELAC Institute) and FSMO (Field Sampling/Measurement Organization) accreditation.
- Conducted internal audits reviewed/updated SOPs (Standard Operating Procedures) as needed, initiated corrective action reports for findings.
- Data is being compiled for the annual WQ Report/CCR (Consumer Confidence Report)

### Lab Acronyms

{CHEM – Chemistry} {DBCP- 1,2-dibromo-3-chloropropane} {DBP- Disinfection by-products} {DMR- Discharge monitoring report} {DOH- State of Hawaii Dept of Health} {EDB- 1,2-dibromoethane} {EPA- United States Environmental Protection Agency} {EPD- Entry Point to Distribution} {HPC- Heterotrophic plate count} {MCL- Maximum Contaminant Level} {NPDES- National Pollutant Discharge Elimination System} {NOV- Notice of Violation} {PH- scale used to specify the acidity or basicity of an aqueous solution}{NTU- Nephelometric Turbidity unit} {Pb/Cu-Lead and Copper} {PWS- Public Water System} {RTCR- Revised Total Coliform Rule} {TCP- 1,2,3-Trichloropropane} {SDWB – DOH Safe Drinking Water Branch} {SOP- standard operating procedure} {TNI- The NELAC Institute} {TOC- Total organic carbon} {TP- Treatment Plant} {UCMR– EPA Unregulated Contaminant Monitoring Rule}

## **Backflow & Cross-Connection Section**

### **Final Inspections (Backflow tests Completed) : 12 completed**

- Test RPBP (Reduced Pressure Backflow Preventer) (2) at 52 Makahiki St., Paia
- Test RPBP at 1000 Kokomo Rd., Haiku
- Test TCM (Temporary Construction Meter) at Leialii Pkwy., Lahaina
- Test RPBP (3) at DWS Lahaina WTP
- Test RPBP at Honoiki St., Kihei
- Test RPBP at DWS Waiehu Hts Tank
- Test RPBP (2) at Kea Lani Hotel, Kihei
- Test TCM at Leleihoku St., Wailuku

### **Annual Test Notices**

Test due notices sent: 250 letters mailed

### **Ongoing Projects**

Field surveys: 88

Safety meetings: 1

**Monitoring of Temporary Construction Meters:** (16 in use) (All TCM's have a backflow preventer)

1-Hana, 3-Wailuku, 4-Makawao, 1-Haiku, 7- Lahaina

## **Electronics, Mechanical, and Electrical Sections**

*Completed Repairs, Projects, Installations, General Maintenance etc.:*

	Electronics	Mechanical	Electrical
Central	24	49	5
Upcountry	20	23	1
Lahaina-Napili	11	22	1
Molokai	1	0	0
Hana	0	2	1
Surface Water Treatment Plants	4	n/a	1
Preventive Maintenance	16	9	0
Safety Meetings	1	1	1

County of Maui  
Dept. of Water Supply  
Monthly Source Reports  
(Gals X 1000)

WELL NAME	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Current Year	Last 12 Months
<i>Central</i>														
Mokuhau 502	38,714	48,761	47,913	47,966	59,349	38,529	29,098	26,178	11,855	5,811	30,676	15,551	63,893	400,401
Mokuhau 503	1,757	2,516	0	1,666	2,446	7,826	8,414	2,300	13,695	32,596	2,872	17,529	66,692	93,617
Waihee 577	74,659	97,420	109,399	124,085	119,188	121,982	94,643	98,532	94,472	106,036	108,685	94,027	403,220	1,243,128
Waihee 578	80,316	60,313	38,532	112	0	0	0	0	0	0	0	3	3	179,276
Waihee 579	75,706	83,984	111,744	124,233	117,093	122,030	104,041	108,607	99,289	91,896	120,393	129,284	440,862	1,288,300
Waiehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waiehu Hts 515	41,549	43,051	44,884	47,989	44,173	46,415	34,972	0	0	1,172	25,246	31,284	57,702	360,735
lao	29,621	45,196	42,453	29,260	6,429	7,051	6,343	4,730	29,475	49,006	55,246	47,108	180,835	351,918
Waikapu	37,767	37,164	38,138	38,418	36,716	36,944	35,909	33,079	23,813	24,219	26,335	28,604	102,971	397,106
Wailuku 1	49,200	49,390	16,247	44,156	59,522	58,025	52,988	51,309	42,784	32,426	39,458	42,674	157,342	538,179
Wailuku 2	266	3,575	52,234	40,610	38,329	44,772	39,404	29,167	24,319	4,821	9,616	5,212	43,968	292,325
<b>DAILY AVERAGE</b>	<b>13,857</b>	<b>15,712</b>	<b>16,179</b>	<b>16,080</b>	<b>16,108</b>	<b>15,599</b>	<b>13,527</b>	<b>11,416</b>	<b>10,958</b>	<b>11,999</b>	<b>13,501</b>	<b>13,709</b>	<b>12,541</b>	<b>14,057</b>
Kepaniwai 511	22,320	21,469	22,320	22,278	21,600	22,177	21,600	22,320	22,320	20,834	21,807	21,600	86,561	262,645
lao Tunnel	49,486	48,273	49,965	49,940	48,068	49,970	48,548	50,100	50,164	46,794	50,083	48,519	195,560	589,910
<b>DAILY AVERAGE</b>	<b>2,316</b>	<b>2,325</b>	<b>2,332</b>	<b>2,330</b>	<b>2,322</b>	<b>2,327</b>	<b>2,338</b>	<b>2,336</b>	<b>2,338</b>	<b>2,332</b>	<b>2,319</b>	<b>2,337</b>	<b>2,332</b>	<b>2,329</b>
N. Waihee #1	15,778	11,723	20,706	30,052	25,543	16,613	16,980	12,187	19,161	16,391	25,082	24,778	85,412	234,994
N. Waihee #2	15,803	25,363	17,135	23,173	22,881	16,307	27,615	27,740	20,209	16,010	40,214	27,860	104,293	280,310
Kanoa #1	31,928	24,825	31,581	22,393	25,751	31,649	33,434	41,059	36,750	29,472	30,810	30,503	127,535	370,155
Kanoa #2	27,702	37,024	31,444	42,638	29,985	29,192	44,888	51,168	32,643	25,815	29,832	40,643	128,933	422,974
Kupaa	38,870	42,936	44,947	45,218	40,187	41,986	34,769	39,003	41,348	45,238	42,371	39,080	168,037	495,953
<b>DAILY AVERAGE</b>	<b>4,196</b>	<b>4,729</b>	<b>4,704</b>	<b>5,273</b>	<b>4,812</b>	<b>4,379</b>	<b>5,256</b>	<b>5,521</b>	<b>4,842</b>	<b>4,584</b>	<b>5,429</b>	<b>5,429</b>	<b>5,076</b>	<b>4,930</b>
Maui Lani #5	4,967	4,731	5,199	4,993	4,757	5,062	4,805	4,990	4,893	4,589	4,952	4,754	19,188	58,692
Maui Lani #6	9,293	8,858	9,524	9,293	8,993	9,276	8,993	9,293	9,256	8,694	9,256	8,993	36,199	109,722
Maui Lani #7	16,433	15,897	16,425	16,466	15,830	16,433	15,918	16,445	16,425	15,324	13,224	15,890	60,863	190,710
<b>DAILY AVERAGE</b>	<b>990</b>	<b>983</b>	<b>1,005</b>	<b>992</b>	<b>986</b>	<b>993</b>	<b>991</b>	<b>991</b>	<b>986</b>	<b>986</b>	<b>885</b>	<b>988</b>	<b>961</b>	<b>981</b>
<i>UpCountry</i>														
Haiku	0	0	0	0	0	0	0	0	0	0	187	1,314	1,501	1,501
H' Poko #1	0	0	0	0	0	0	0	26	0	252	0	0	252	278
H' Poko #2	0	12,294	23,623	24,151	23,760	12,218	23,084	14,513	0	0	0	0	0	133,643
Kaupakalua	16,967	18,738	17,977	19,228	17,615	20,218	17,864	15,807	16,552	17,602	17,493	16,456	68,103	212,517
Pookela	0	9,118	38,628	38,727	37,989	38,877	37,742	39,025	38,219	34,389	37,655	24,008	134,271	374,377
<b>DAILY AVERAGE</b>	<b>547</b>	<b>1,338</b>	<b>2,588</b>	<b>2,649</b>	<b>2,645</b>	<b>2,300</b>	<b>2,623</b>	<b>2,238</b>	<b>1,767</b>	<b>1,801</b>	<b>1,785</b>	<b>1,393</b>	<b>1,687</b>	<b>1,974</b>
<i>Lahaina</i>														
Kanaha 575	4,191	6,141	4,148	1,311	239	44	207	422	1,720	12	721	292	2,745	19,448
Kanaha 576	2,659	3,583	6,071	1,999	646	165	26	20	2,426	25	430	99	2,980	18,149
Waipuka 559	5,881	7,551	8,121	2,366	696	221	35	174	99	11	49	30	189	25,234
Waipuka 560	1,408	5,887	4,699	2,048	330	25	354	155	106	11	112	46	275	15,181
Napili A 569	2,779	499	61	2,117	287	3,188	548	1,505	420	230	1,798	4,224	6,672	17,656
Napili B 570	0	7,494	20,844	4,004	9,216	0	0	0	0	0	0	0	0	41,558
Napili C 571	44,223	39,147	7,745	33,428	29,680	39,985	37,580	38,909	32,462	36,810	42,133	41,556	152,961	423,658
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	12,198	20,284	19,055	3,647	11,732	13,244	14,923	17,968	1,372	963	19,153	13,505	34,993	148,044
<b>DAILY AVERAGE</b>	<b>2,366</b>	<b>3,020</b>	<b>2,282</b>	<b>1,643</b>	<b>1,761</b>	<b>1,835</b>	<b>1,789</b>	<b>1,908</b>	<b>1,245</b>	<b>1,312</b>	<b>2,077</b>	<b>1,992</b>	<b>1,660</b>	<b>1,937</b>
<i>Hana</i>														
Hamoia 597	6,657	6,804	847	7,025	5,681	485	6,467	3,797	9,979	5,529	6,086	1	21,595	59,358
Hamoia #2	2,161	2,159	9,594	2,807	4,295	10,341	3,772	7,530	740	5,062	5,528	11,200	22,530	65,189
Keanae #1	426	120	172	749	562	1	649	397	351	307	465	282	1,405	4,481
Keanae #2	257	578	671	30	130	902	232	361	704	295	327	362	1,688	4,849
Wakui 550 B	929	2,055	2,815	229	451	2,656	330	1,754	673	0	407	676	1,756	12,975
Wakui C	1,531	504	10	2,971	2,261	138	2,233	839	1,943	2,511	2,264	1,863	8,581	19,068
<b>DAILY AVERAGE</b>	<b>386</b>	<b>407</b>	<b>455</b>	<b>446</b>	<b>446</b>	<b>468</b>	<b>456</b>	<b>473</b>	<b>464</b>	<b>473</b>	<b>486</b>	<b>479</b>	<b>476</b>	<b>453</b>
<i>Molokai</i>														
Kawela 551	185	393	0	0	0	189	2	11	677	2,091	0	0	2,768	3,548
Kawela 552	51	134	0	0	0	208	0	5	0	0	0	0	0	398
Ualapue 553	3,983	6,158	5,570	7,015	5,611	2,924	164	1,034	3,222	168	5,669	2,210	11,269	43,728
Ualapue 554	1,791	220	948	123	939	3,502	5,172	3,241	1,333	4,313	51	2,946	8,643	24,579
Kualapuu	18,806	20,004	21,265	21,546	20,415	20,163	17,779	16,177	13,825	12,666	13,333	14,866	54,690	210,845
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DAILY AVERAGE</b>	<b>801</b>	<b>897</b>	<b>896</b>	<b>925</b>	<b>899</b>	<b>871</b>	<b>771</b>	<b>660</b>	<b>615</b>	<b>663</b>	<b>615</b>	<b>667</b>	<b>639</b>	<b>773</b>

**County of Maui**  
**Dept. of Water Supply**  
**Monthly Source Reports**  
(Gals X 1000)

WELL NAME	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Current Year	Last 12 Months
<i>Central</i>														
Mokuhau 502	12,297	7,337	54,818	53,785	68,899	42,852	31,997	34,803	31,434	29,074	34,065	38,604	133,177	439,965
Mokuhau 503	77,789	71,899	38,428	30,064	3,353	6,661	2,267	1,281	2,039	2,089	2,408	837	7,373	239,115
Waihee 577	79,481	73,136	79,660	83,978	88,351	90,941	70,188	67,715	69,658	54,799	83,661	68,894	277,012	910,462
Waihee 578	71,408	78,575	91,680	93,796	81,165	79,340	76,252	72,379	59,500	38,376	62,062	69,227	229,165	873,760
Waihee 579	69,200	81,924	76,469	83,353	77,883	77,014	79,134	68,962	67,681	67,734	53,714	70,179	259,308	873,247
Waiehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waiehu Hts 515	46,054	46,296	49,135	45,933	43,158	42,650	41,563	41,124	40,361	31,315	37,109	38,658	147,443	503,356
lao	56,861	59,108	49,263	48,728	50,752	58,907	57,692	39,532	54,357	29,232	49,730	47,400	180,719	601,562
Waikapu	33,165	34,133	37,074	36,509	33,857	33,471	33,317	29,655	31,670	26,787	31,543	33,976	123,976	395,157
Wailuku 1	13,473	13,699	46,278	49,643	27,845	32,040	45,681	67,053	44,885	41,622	35,566	40,011	162,084	457,796
Wailuku 2	1,727	160	1,399	4,143	3,165	6,381	3,418	7,743	3,705	13,026	10,211	1,508	28,450	56,586
<b>DAILY AVERAGE</b>	<b>14,886</b>	<b>15,542</b>	<b>16,910</b>	<b>17,095</b>	<b>15,948</b>	<b>15,170</b>	<b>14,717</b>	<b>13,879</b>	<b>13,074</b>	<b>11,931</b>	<b>12,905</b>	<b>13,643</b>	<b>12,906</b>	<b>14,660</b>
Kepaniwai 511	22,270	21,531	22,149	22,239	21,600	21,375	21,401	5,003	14,053	19,906	22,101	21,600	77,660	235,228
lao Tunnel	49,595	48,487	49,918	50,428	48,624	44,494	37,767	50,272	52,206	44,630	44,669	48,369	189,874	569,459
<b>DAILY AVERAGE</b>	<b>2,318</b>	<b>2,334</b>	<b>2,325</b>	<b>2,344</b>	<b>2,341</b>	<b>2,125</b>	<b>1,972</b>	<b>1,783</b>	<b>2,137</b>	<b>2,305</b>	<b>2,154</b>	<b>2,332</b>	<b>2,229</b>	<b>2,205</b>
N. Waihee #1	13,652	14,742	16,079	17,296	14,851	15,706	13,795	13,466	13,781	8,964	11,133	11,589	45,467	165,054
N. Waihee #2	16,175	15,383	15,994	24,546	15,631	16,158	14,382	15,031	15,344	12,897	15,091	14,979	58,311	191,611
Kanoa #1	31,936	30,412	32,117	8,690	0	8,076	29,121	31,027	29,748	25,970	28,623	29,422	113,763	285,142
Kanoa #2	27,702	26,748	27,483	44,089	26,604	27,702	26,799	27,242	27,585	24,072	27,051	26,222	104,930	339,299
Kupaa	50,327	47,851	50,871	27,727	44,451	45,094	40,017	38,763	37,265	30,583	37,745	36,878	142,471	487,572
<b>DAILY AVERAGE</b>	<b>4,509</b>	<b>4,505</b>	<b>4,598</b>	<b>3,947</b>	<b>3,385</b>	<b>3,637</b>	<b>4,137</b>	<b>4,049</b>	<b>3,991</b>	<b>3,660</b>	<b>3,859</b>	<b>3,970</b>	<b>3,875</b>	<b>4,024</b>
Maui Lani #5	4,931	4,797	5,033	4,996	4,754	4,977	3,980	5,151	5,151	4,504	4,291	4,854	18,800	57,419
Maui Lani #6	9,293	8,993	9,274	9,279	7,784	9,293	8,921	9,468	9,293	8,278	7,478	8,993	34,042	106,347
Maui Lani #7	16,448	15,893	16,460	16,325	15,883	16,448	15,872	16,111	16,387	14,858	16,281	15,947	63,473	192,913
<b>DAILY AVERAGE</b>	<b>989</b>	<b>989</b>	<b>992</b>	<b>987</b>	<b>947</b>	<b>991</b>	<b>959</b>	<b>991</b>	<b>995</b>	<b>987</b>	<b>905</b>	<b>993</b>	<b>969</b>	<b>977</b>
<i>UpCountry</i>														
Haiku	0	0	0	0	0	132	6,030	6,877	7,438	6,601	5,078	0	19,117	32,156
H' Poko #1	0	0	0	5,914	10,333	0	0	0	0	0	0	0	0	16,247
H' Poko #2	0	0	0	3,286	7,599	0	0	0	0	0	0	0	0	10,885
Kaupakalua	17,133	17,831	18,175	19,272	17,397	17,753	14,944	15,012	15,737	12,880	16,137	15,970	60,724	198,241
Pookela	7,897	6,823	6,022	20,442	37,085	39,132	37,734	24,103	24,103	0	0	684	24,787	204,025
<b>DAILY AVERAGE</b>	<b>807</b>	<b>822</b>	<b>781</b>	<b>1,578</b>	<b>2,414</b>	<b>1,839</b>	<b>1,957</b>	<b>1,484</b>	<b>1,525</b>	<b>696</b>	<b>684</b>	<b>555</b>	<b>872</b>	<b>1,265</b>
<i>Lahaina</i>														
Kanaha 575	5,511	7,210	2,261	8,743	9,054	4,485	2,217	3,339	340	0	38	1,167	1,545	44,365
Kanaha 576	4,443	922	711	1,893	1,825	10,691	9,116	8,537	9,224	484	510	1,019	11,237	49,375
Waipuka 559	6,672	3,958	552	2,110	2,851	6,731	6,245	8,370	8,845	2,584	1,682	6,046	19,157	56,646
Waipuka 560	7,675	7,528	2,178	8,786	10,451	11,694	7,664	4,468	9,430	1,359	793	2,374	13,956	74,400
Napili A 569	2,103	174	594	3,520	3,451	3,622	1,416	2,397	2,917	215	3,248	280	6,660	23,937
Napili B 570	15,077	18,024	11,264	19,224	2,341	0	0	0	0	0	0	0	0	65,930
Napili C 571	21,761	34,096	37,638	29,251	33,337	42,704	35,164	29,320	41,065	33,692	32,427	40,992	148,176	411,447
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	10,997	3,483	12,734	8,074	18,748	21,519	15,803	5,103	9,290	4,115	4,740	10,884	29,029	125,490
<b>DAILY AVERAGE</b>	<b>2,395</b>	<b>2,513</b>	<b>2,191</b>	<b>2,632</b>	<b>2,735</b>	<b>3,272</b>	<b>2,588</b>	<b>1,985</b>	<b>2,616</b>	<b>1,516</b>	<b>1,401</b>	<b>2,092</b>	<b>1,915</b>	<b>2,333</b>
<i>Hana</i>														
Hamo 597	3,419	2,722	3,876	4,742	3,468	6,849	3,812	24	2,358	4,106	3,767	2,824	13,055	41,967
Hamo #2	3,368	3,970	4,037	4,208	4,740	2,048	5,420	9,701	7,210	3,706	4,958	5,786	21,660	59,152
Keanae #1	504	504	436	11	423	418	283	283	579	131	212	330	1,252	4,114
Keanae #2	548	548	243	624	177	131	265	265	164	352	339	237	1,092	3,893
Wakui 550 B	1,608	1,703	1,250	2,424	292	877	1,672	649	648	534	735	1,423	3,340	13,815
Wakui C	2,569	2,106	2,773	553	1,970	1,446	526	1,692	1,741	1,386	1,576	949	5,652	19,287
<b>DAILY AVERAGE</b>	<b>388</b>	<b>385</b>	<b>407</b>	<b>405</b>	<b>369</b>	<b>380</b>	<b>399</b>	<b>407</b>	<b>410</b>	<b>365</b>	<b>374</b>	<b>385</b>	<b>384</b>	<b>390</b>
<i>Molokai</i>														
Kawela 551	0	1	8,208	1,338	2	0	86	150	212	0	207	585	1,004	10,789
Kawela 552	4,078	3,652	527	5,439	7,322	3,365	1,806	80	89	0	96	308	493	26,762
Ualapue 553	3,839	4,152	3,890	4,718	1,504	3,483	2,978	1,050	2,528	2,136	2,126	160	6,950	32,564
Ualapue 554	3,951	3,674	3,548	3,930	4,954	3,541	1,122	2,982	2,227	1,380	2,141	4,506	10,254	37,956
Kualapuu	17,302	18,332	14,398	18,133	16,313	17,189	17,521	16,597	16,173	13,498	15,717	16,773	62,161	197,946
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DAILY AVERAGE</b>	<b>941</b>	<b>994</b>	<b>986</b>	<b>1,083</b>	<b>1,003</b>	<b>890</b>	<b>784</b>	<b>673</b>	<b>685</b>	<b>608</b>	<b>654</b>	<b>744</b>	<b>674</b>	<b>838</b>



**County of Maui**  
**Dept. of Water Supply**  
**Monthly Source Reports**  
(Gals X 1000)

WELL NAME	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Current Year	Last 12 Months
<i>Central</i>														
Mokuhau 501	7,353	18,671	11,108	14,228	15,793	10,743	995	100	0	1,031	14,891	12,056	27,977	106,968
Mokuhau 503	75,762	77,789	90,485	74,183	57,698	76,575	72,090	66,871	90,253	73,445	74,548	95,936	334,182	925,635
Waihee 577	54,832	52,889	60,631	67,021	74,522	74,715	70,213	68,779	70,798	61,754	75,830	77,048	285,430	809,032
Waihee 578	50,970	59,924	61,793	71,811	73,674	72,529	69,390	34,539	45,283	54,422	78,344	76,903	254,952	749,582
Waihee 579	111,665	120,276	122,846	115,585	74,349	72,357	74,466	62,722	68,112	69,465	70,202	71,457	279,236	1,033,502
Waiehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waiehu Hts 515	43,013	44,486	43,113	42,861	42,247	42,221	40,662	37,347	40,059	37,408	41,201	40,971	159,639	495,589
lao	36,286	51,523	33,150	17,907	39,419	17,417	51,740	18,645	30,837	47,350	17,015	33,859	129,061	395,148
Waikapu	33,252	36,268	37,242	35,545	40,643	40,531	36,146	31,699	36,597	37,340	37,259	32,578	143,773	435,099
Wailuku 1	37,599	42,290	34,441	46,442	22,683	51,467	22,489	59,817	16,590	7,547	48,846	50,815	123,798	441,026
Wailuku 2	0	416	24,123	32,859	24,407	8,670	4,844	247	169	1,507	109	175	1,960	97,526
<b>DAILY AVERAGE</b>	<b>14,540</b>	<b>16,818</b>	<b>16,740</b>	<b>16,724</b>	<b>15,515</b>	<b>15,072</b>	<b>14,768</b>	<b>12,283</b>	<b>12,861</b>	<b>13,974</b>	<b>14,782</b>	<b>16,393</b>	<b>14,500</b>	<b>15,039</b>
Kepaniwai 511	19,861	19,114	19,865	19,636	19,144	19,636	19,224	19,866	6,104	9,034	22,320	21,600	59,061	215,401
lao Tunnel	30,946	30,902	32,450	33,289	32,255	33,289	32,679	26,895	32,918	42,722	49,462	47,699	172,801	425,506
<b>DAILY AVERAGE</b>	<b>1,639</b>	<b>1,667</b>	<b>1,688</b>	<b>1,707</b>	<b>1,713</b>	<b>1,707</b>	<b>1,730</b>	<b>1,508</b>	<b>1,259</b>	<b>1,848</b>	<b>2,316</b>	<b>2,310</b>	<b>1,932</b>	<b>1,756</b>
N. Waihee #1	48,942	47,203	49,039	17,730	15,654	17,730	15,766	11,508	12,327	12,938	13,368	13,539	52,173	275,745
N. Waihee #2	217	231	423	14,843	13,247	14,843	13,771	12,937	15,917	14,457	15,708	14,891	60,973	131,485
Kanoa #1	51,664	52,637	54,774	32,703	30,184	32,703	28,933	27,798	30,791	27,506	31,083	29,211	118,592	429,988
Kanoa #2	400	252	377	26,454	26,611	26,454	27,866	25,822	27,553	24,305	27,352	27,375	106,585	240,821
Kupaa	50,162	49,148	49,850	49,635	48,123	49,635	48,109	47,645	48,726	44,201	50,727	45,464	189,117	581,424
<b>DAILY AVERAGE</b>	<b>4,883</b>	<b>4,982</b>	<b>4,983</b>	<b>4,560</b>	<b>4,461</b>	<b>4,560</b>	<b>4,482</b>	<b>4,055</b>	<b>4,365</b>	<b>4,407</b>	<b>4,459</b>	<b>4,349</b>	<b>4,395</b>	<b>4,546</b>
Maui Lani #5	68	86	459	46	408	4,243	4,760	5,053	4,627	4,426	5,052	5,080	19,185	34,308
Maui Lani #6	10,873	10,592	11,685	22,320	21,321	10,390	9,470	9,256	9,209	8,394	9,293	8,993	35,889	141,796
Maui Lani #7	16,462	15,950	15,701	10,821	10,581	14,566	15,894	16,507	15,988	14,868	16,513	15,929	63,299	179,781
<b>DAILY AVERAGE</b>	<b>884</b>	<b>888</b>	<b>898</b>	<b>1,071</b>	<b>1,077</b>	<b>942</b>	<b>1,004</b>	<b>994</b>	<b>962</b>	<b>989</b>	<b>995</b>	<b>1,000</b>	<b>986</b>	<b>975</b>
<i>UpCountry</i>														
Haiku	10,381	12,377	13,681	13,887	13,178	1,039	0	0	0	0	0	0	0	64,543
H' Poko #1	0	3,801	6,034	0	0	0	0	0	0	5,543	10,998	115	16,657	26,492
H' Poko #2	0	2,478	4,565	0	0	0	0	0	0	6,362	7,597	0	13,960	21,003
Kaupakalua	17,409	20,022	18,465	17,506	17,218	16,813	17,664	16,394	17,102	16,600	19,365	15,566	68,633	210,124
Pookela	0	6,638	23,812	4,893	174	7,357	26,800	7,639	20,601	34,058	38,202	3,105	95,965	173,278
<b>DAILY AVERAGE</b>	<b>896</b>	<b>1,511</b>	<b>2,147</b>	<b>1,171</b>	<b>1,019</b>	<b>813</b>	<b>1,482</b>	<b>775</b>	<b>1,216</b>	<b>2,234</b>	<b>2,457</b>	<b>626</b>	<b>1,627</b>	<b>1,357</b>
<i>Lahaina</i>														
Kanaha 575	65	5,794	5,697	7,867	5,256	2,863	3,773	2,060	1,343	4,892	9,277	5,233	20,745	54,120
Kanaha 576	1,940	9,385	8,735	8,467	3,062	3,485	3,631	1,235	754	1,979	6,866	1,616	11,215	51,155
Waipuka 559	2,604	9,235	7,840	10,303	9,549	9,192	7,866	3,511	2,790	3,943	6,448	7,571	20,752	80,852
Waipuka 560	63	6,466	10,195	10,126	8,434	6,495	5,463	1,101	625	5,406	11,427	7,151	24,609	72,952
Napili A 569	254	1,858	1,482	542	265	392	1,071	144	83	309	20,766	2,319	23,477	29,485
Napili B 570	22,482	16,971	15,820	14,367	25,523	24,046	21,917	18,217	19,448	21,897	25,536	13,624	80,505	239,848
Napili C 571	16,521	41,068	43,649	43,711	9,073	5,169	11,339	8,677	6,739	2,449	5,105	17,925	32,218	211,425
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	14,316	21,685	31,230	29,716	28,960	28,904	22,613	19,368	20,724	23,691	26,905	9,016	80,336	277,128
<b>DAILY AVERAGE</b>	<b>1,879</b>	<b>3,749</b>	<b>4,021</b>	<b>4,035</b>	<b>3,004</b>	<b>2,598</b>	<b>2,589</b>	<b>1,752</b>	<b>1,694</b>	<b>2,306</b>	<b>3,624</b>	<b>2,149</b>	<b>2,449</b>	<b>2,786</b>
<i>Hana</i>														
Hamoia 597	2,486	1,186	4,419	2,380	6,323	2,184	6,132	4,238	864	3,597	4,695	1,753	10,909	40,257
Hamoia #2	6,237	229	4,428	5,895	774	4,918	1,758	3,158	6,492	5,149	3,389	5,657	20,687	48,084
Keanae #1	539	1,222	124	741	519	650	219	722	72	657	668	220	1,616	6,352
Keanae #2	1,280	626	1,011	438	575	544	829	0	814	168	299	590	1,871	7,174
Wakiu 550 B	2,064	1,131	1,308	1,106	1,921	2,196	926	3,291	2,522	2,695	2,096	382	7,695	21,638
Wakiu C	1,674	2,900	2,540	2,347	1,228	1,059	2,451	116	1,157	761	1,564	3,284	6,766	21,081
<b>DAILY AVERAGE</b>	<b>461</b>	<b>243</b>	<b>446</b>	<b>416</b>	<b>378</b>	<b>373</b>	<b>411</b>	<b>372</b>	<b>385</b>	<b>465</b>	<b>410</b>	<b>396</b>	<b>413</b>	<b>396</b>
<i>Molokai</i>														
Kawela 551	9,371	9,662	1,737	1,560	7,016	9,430	395	0	13	6,028	1,915	0	7,955	47,126
Kawela 552	9	4	5,255	3,034	3	9	7,490	9,310	9,327	2,565	2,999	4,161	19,052	44,166
Ualapue 553	5,125	2,251	3,619	1,819	2,238	4,331	2,124	3,257	3,373	2,993	3,530	3,575	13,471	38,235
Ualapue 554	1,642	5,843	3,831	5,086	3,793	2,117	4,167	1,592	1,965	2,672	4,000	3,151	11,788	39,859
Kualapuu	12,326	13,622	16,669	17,782	13,534	12,395	12,527	8,425	7,970	8,803	14,450	15,766	46,989	154,269
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DAILY AVERAGE</b>	<b>918</b>	<b>1,046</b>	<b>1,004</b>	<b>945</b>	<b>886</b>	<b>912</b>	<b>890</b>	<b>729</b>	<b>731</b>	<b>824</b>	<b>868</b>	<b>888</b>	<b>827</b>	<b>887</b>



To: John Stufflebeen P.E., Director  
 From: Helaman Aiwohi - Field Operations Division Chief *HA*  
 Subject: Monthly Status Report for Field Operations  
 For the Month of April 2024

**CENTRAL MAINTNEANCE**

- Responded to 38 Complaints during regular working hours
- Responded to 26 After hour consumer complaints
- Completed 0 Field Activities
- Replaced 0 defective meter
- Replaced 0 defective transponder
- Completed 0 Job Orders
- Completed 0 Agricultural Inspections
- Completed 0 Tie Ins inspection
- Completed 0 Tap inspections
- Completed 0 Bores inspections
- Completed 0 Inspections
- Replace/repaired 22 Gate valve/stops/CI box
- Responded to 8 Shut/Open meter complaints
- Responded to 3 High/Low pressure complaints
- Responded to 4 No water complaints
- Responded to 0 Dirty water complaints
- Repaired 2 Hydrants/Standpipes
- Replaced 20 feet 3/4-inch PE pipe
- Replaced 100 feet 1-inch Copper pipe
- Replaced 80 feet 1 1/4-inch Copper pipe
- Replaced 220 feet 1 1/2-inch Copper pipe
- Replaced 160 feet 2-inch Copper pipe
- Replaced 0 6-inch Copper pipe
- Replaced 0 feet 3-inch-DI pipe
- Replaced 0 feet 6-inch-DI pipe
- Replaced 0 feet 8-inch DI pipe
- Replaced 0 feet 18-inch DI Pipe
- Repaired 6 Main lines
- Repaired 26 Leaking meters
- Repaired 2 Leaking service laterals
- Replaced 14 Leaking service laterals
- Installed 0 New service lateral
- Installed 0 In line valves
- Leak detection located 11450 feet of leaking pipe
- Leak detection located 3
- Patched sinking roads
- Marked out patch for paving list

- Checked patches from paving list that was down by contractors
- Located water lines and water valves
- Tank SCADA night-time calls
- Tank maintenance scheduling
- Flushing crew assisting in the Lahaina area
- Utility locate request at all excavations

## UPCOUNTRY MAINTENANCE

- Responded to 39 Complaints during regular working hours
- Responded to 17 After hour consumer complaints
- Completed 7 Field Activities
  - Replaced 6 defective meter
  - Replaced 6 defective transponder
  - Unlock 1 meters
  - Reading 1 get/verify for Fiscal
- Completed 2 Job Orders
- Completed 3 Agricultural Inspections
- Responded to 8 Private leaks.
- Responded to 3 close/open water .
- Responded to 3 high/low pressure complaints.
- Responded to 10 miscellaneous calls.
- Responded to 1 no leaks found.
- Repaired 4 meter leak.
- Repaired/Replaced 4 Standpipe/hydrants.
- Replaced 2 feet 1-inch service laterals
- Replaced 9 feet 1-1/2-inch service laterals
- Replaced 45 feet 1-1/4-inch service lateral.
- Repaired 1 1-1/4-inch service lateral.
- Repaired 10 1-inch service lateral.
- Repaired 0 1-1/2-inch service lateral.
- Repaired 5 2-inch small main lines.
- Repaired 1 4-inch large main line.
- Repaired 1 6-inch large main line.
- Replaced 5 feet 2-inch small main line.
- Repaired/Replaced 2-inch PE small mainline and 4-inch PVC and 6-inch CI large mainlines.

## CONSTRUCTION

- Responded to 27 Complaints during regular working hours
- Responded to 0 After hour consumer complaints
- Completed 45 Field Activities
  - Replaced 45 defective meter
  - Replaced 45 defective transponder
- Completed 0 Job Orders
- Completed 0 Agricultural Inspections
- Wili Pa Loop - repaired 3-inch galvanized mainline.

- Pikai Way - replaced damaged 1-1/4-inch double service lateral.
- Kaupu Pl. - repaired leaking stopcock.
- S. Kauai St. - replaced 1-inch galvanized service with copper.
- S. Lehua St. - replaced 1-inch galvanized service with copper.
- Kulanihako St. - replaced 1-inch galvanized service lateral with copper, repaired concrete sidewalk.
- Papa Ave. - replaced galvanized single service lateral with copper, replaced 1-1/4-inch galvanized double service later with copper.
- Kahului Airport - repaired 12-inc AC mainline.
- Pua Loa Nani Pl. - replaced 1-1/4-inch double service lateral with copper.
- Halula Pl. - replaced 70 feet drisco double service lateral with copper. Repaired sidewalk.
- Makena Rd. - repaired 2-inch mainline.
- River Rd. - repaired 2-inch drisco mainline.
- Kauhikoa Tank - repaired 80inch gate valve.
- Lahaina Pool - installed 60 feet of 2-inch drisco jumper line.
- Front St. - replaced damaged hydrant
- Napili Hau - replaced 1-inch service lateral, meters and transponders.

### HANA MAINTENANCE

- |   |         |   |
|---|---------|---|
| ● Responded to  | 15      | Complaints during regular working hours |
| ● Responded to  | 3       | After hour consumer complaints          |
| ● Completed   | 2       | Field Activities                        |
|   | Reading | 2 get/verify                            |
| ● Repaired  | 0       | 1-inch service lateral                  |
| ● Repaired  | 0       | 1-1/4-inch service lateral              |
| ● Repaired  | 0       | 1-1/2-inch service lateral              |
| ● Repaired  | 0       | 2-1/2-inch mainline                     |
| ● Repaired  | 0       | 1-inch copper service                   |
| ● Repaired  | 0       | 1-1/2-inch copper service               |
| ● Repaired  | 0       | 4-inch mainline                         |
| ● Repaired  | 0       | 4-inch PE mainline                      |
| ● Kaupo to Keanae - Read 540 meters.  |         |   |
| ● Makapipi - picked up monthly meter readings.                                      |         |   |
| ● Hamoa, Keanae, Koali, Nahiku - Tank maintenance.                                  |         |   |
| ● Hamoa, Wakiu, Nahiku, Keanae - Topped off chlorine weekly.                        |         |   |
| ● Hamoa, Wakiu, Nahiku, Makapipi - monthly well samples.                            |         |   |
| ● Keanae, Nahiku, Wakiu, Hamoa - checked tank sites due to extensive power outages. |         |   |

### LAHAINA MAINTENANCE

- |                |          |   |
|----------------|----------|---|
| ● Responded to | 26       | Complaints during regular working hours |
| ● Responded to | 14       | After hour consumer complaints          |
| ● Completed    | 16       | Field Activities                        |
|                | Replaced | 7 defective meters                      |
|                | Replaced | 7 defective transponder                 |
|                | Replaced | 8 CI meter covers with plastic covers   |

- Re-mounted 1 transponder
- Completed 1 Job Orders
- Completed 0 Agricultural Inspections
- Responded to 1 no water
- Responded to 9 meter complaints
- Responded to 1 hydrant complaints
- Responded to 2 miscellaneous complaints
- Replaced 1 16-inch sliding valve box top
- Replaced 1 10-inch sliding valve box top
- Replaced 2 service lateral
- Replaced 30 feet 1-1/4-inch service with copper
- Replaced 20 feet 1-inch GI service with copper
- Replaced 7 stopcock
- Replaced 4 plastic meter boxes
- Replaced 6 cast iron meter cover with plastic covers
- Repaired 10 leaking services
- Repaired 4 leaking meter
- Installed 5 1-1/4-inch ball valves
- Installed 1 1-inch ball valve
- Re-Installed 1 meter and transponder
- Opened 2 hydrant valves
- Cut and plugged 15 corporations and service laterals.
- Limahana Pl. - shut and removed hydrant 320.
- Opened and shut mainline valves to restore water to Wharf St.
- Opened mainline valve to restore water to Front St., from Waihee Lane to Bakers St.
- Installed/removed apparatuses in Lahaina area.
- Shut and removed meters in Lahaina area.
- Flushed water in Lahaina.
- Honokohau Valley system check

## MOLOKAI MAINTENANCE

- Responded to 12 Complaints during regular working hours
- Responded to 5 After hour consumer complaints
- Completed 9 Field Activities
- Replaced 1 defective meters
- Replaced 2 defective transponders
- Verify 1 meter number
- Reading 7 get/verify reading for Fiscal
- Completed 0 Agricultural Inspections
- Read 1657 meters
- Repaired 0 8-inch mainline.
- Repaired 0 6-inch mainline.
- Repaired 0 2-inch mainline.
- Repaired 0 1-1/2-inch service lateral.
- Repaired 1 1-inch service lateral.

- Testing and samples           Kualapuu Well, Kawela Well, and Ualapue Well.
- Chlorine readings from       Kualapuu Tank, Waikalae Tank, Kalae standpipe 2, Kaunakakai  
1-million-gallon tank, old fire station, One Ali'i, Kamiloloa Booster,  
Kawela Well/Pump, St. Joseph Church, Ualapue Well/Booster/Tank,  
Hydrants 107, 52, 22, 117.
- Tank maintenance at         Kualapuu Well, Waikalae Tank, Kaunakakai Tank, Kamiloloa  
Booster/Well, Kawela Well, Kanoa Tank, Ualapue Well/Tank.
- Hydrant maintenance
 

Town Area	32
West Side	24
- Repaired motor at Kualapuu Well.

## **SUPPORT SERVICE**

### **METER SHOP**

- |             |           |     |  |
|-------------|-----------|-----|--|
| ● Completed |           | 131 | Field Activities                       |
|             | Replaced  | 96  | defective meters                       |
|             | Replaced  | 107 | defective transponder                  |
|             | Tested    | 24  | meters found them all working properly |
|             | Tested    | 28  | meters found them to be faulty         |
|             | Installed | 8   | new meter                              |
|             | Upgraded  | 1   | meters                                 |
|             | Replaced  | 16  | plastic meter box/covers               |

### **VALVE CREW**

- |                          |  |   |                         |
|--------------------------|--|---|-------------------------|
| ● Checked/adjusted valve |  | 8 | sites                   |
| ● Checked on controls at |  | 8 | sites                   |
| ● Drained                |  | 0 | sites                   |
| ● Checked                |  | 8 | recorders               |
| ● Installed              |  | 4 | recorders               |
| ● Checked tank levels at |  | 0 | sites                   |
| ● Serviced               |  | 0 | valves at various sited |
| ● Hydrant flow test.     |  |   |                         |

### **HYDRANT MAINTENANCE**

- |                    |  |   |                         |
|--------------------|--|---|-------------------------|
| ● Raised           |  | 0 | valve boxes             |
| ● Repaired         |  | 0 | warfhead                |
| ● Rebuilt          |  | 0 | hydrants/stand pipes    |
| ● Repaired         |  | 0 | hydrants/stand pipes    |
| ● Serviced/painted |  | 0 | hydrants/stand pipes    |
| ● Cut and threaded |  | 0 | hydrants/stand pipes    |
| ● Serviced         |  | 0 | valves at various sited |

### **MECHAINIC SHOP**

- |             |  |    |          |
|-------------|--|----|----------|
| ● Worked on |  | 30 | vehicles |
| ● Services  |  | 10 | vehicles |

- Completed 10 break jobs
- Responded to 4 trouble calls
- Completed 6 PUC inspections
- Rebuild CM 2242 engine and drive train, rebuild trailer 104 suspensions and breaks.

## **CARPENTERS**

- Repaired drive ways and sidewalks in Kula, Kihei, and Central area.
- Replaced decking on travel trailer 199.
- Poured drive way in the rear area of the NASKA Baseyard.
- Wili Pa Loop - Fiscal Office - repaired plumbing issues.
- Poured slab and made a shed for Mokuahu salt bags.

## **WELDER**

- Fabricated valve wrenches. Repaired steel decking on trailer 104, repaired CM 2242 truck bed, repaired water buffalo fenders.

## **WAREHOUSE**

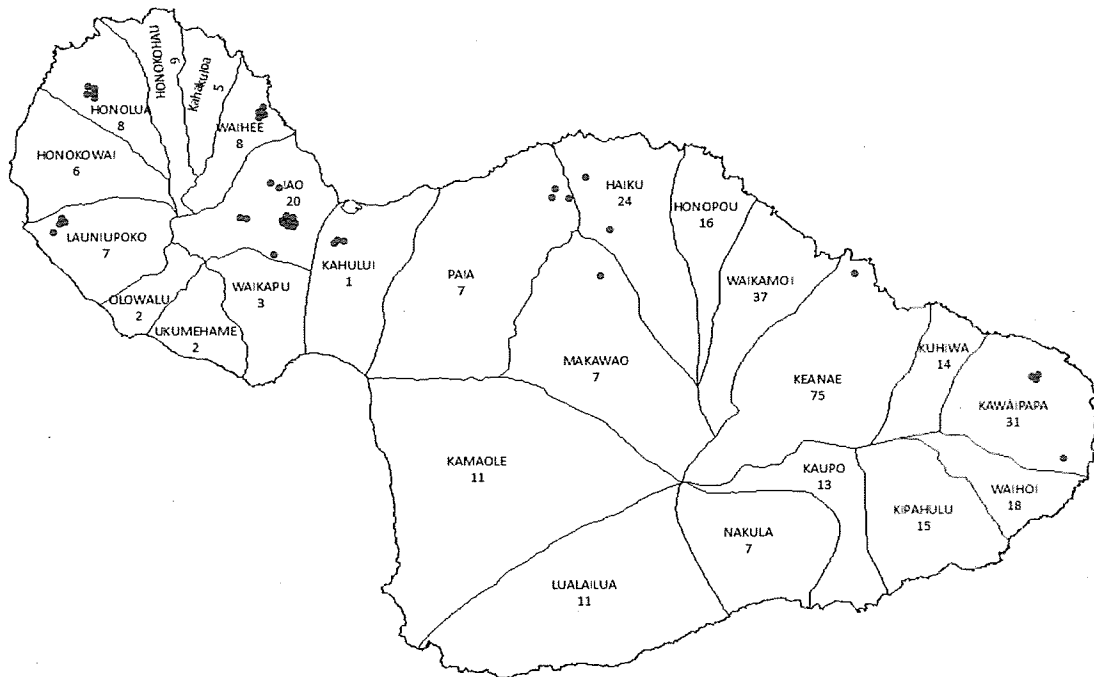
- Issue items and materials.
- Create requisitions to ensure proper accountability.
- Process requisitions into the IFAS date base.
- Create a batch proof of the orders ensure all coding and information is correct.
- Cycle count all DWS warehouse,
- Process cycle count inventory, investigate and correct errors, and record errors.
- Re-stock materials.
- Create informal bids up to \$25,000.00.
- Create bid/requisition for employee shirts, meters, and endpoints.
- Receive orders from freight forwarder and or pick up will call orders.
- Stock/Restock products using FIFO (first in, first out) method.
- Receive phone in orders and inquires.
- Ship and transfer orders to other districts warehouse.
- Issue PPE, uniforms, notify Safety Office when items need to be re-ordered.

**DWS Groundwater Use - Island of Maui**

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months (G)	Pumpage MAV as of 4/30/2024 (GPD)	% Sustainable Yield - DWS
Wailuku	Waikapu	3					
		lao	20				
	Mokuhau 1		5330-09	0	0	0.00%	
	Mokuhau 2		5330-10	400,401,000	1,096,989	5.48%	
	Mokuhau 3		5330-11	93,617,000	256,485	1.28%	
	Waihee 1		5431-02	1,243,128,000	3,405,830	17.03%	
	Waihee 2		5431-03	179,276,000	491,167	2.46%	
	Waihee 3		5431-04	1,288,300,000	3,529,589	17.65%	
	Waiehu Heights 1		5430-01	0	0	0.00%	
	Waiehu Heights 2		5430-02	360,735,000	988,315	4.94%	
	Keponiwai		5332-05	262,645,000	719,575	3.60%	
	lao Tank Site Well		5230-02	351,918,000	964,159	4.82%	
	Waikapu Well		5131-01	397,106,000	1,087,962	5.44%	
	Wailuku 1		5230-04	538,179,000	1,474,463	7.37%	
	Wailuku 2	5230-05	292,325,000	800,890	4.00%		
<b>lao Subtotal</b>					<b>14,815,425</b>	<b>74.08%</b>	
Waihee	Waihee	8					
		North Waihee # 1	5631-02	234,994,000	643,819	8.05%	
		North Waihee # 2	5631-03	280,310,000	767,973	9.60%	
		Kanoa 1	5731-02	370,155,000	1,014,123	12.68%	
		Kanoa 2	5731-04	422,974,000	1,158,833	14.49%	
	Kupaa	5731-03	495,953,000	1,358,775	16.98%		
<b>Waihee Subtotal</b>					<b>4,943,523</b>	<b>61.79%</b>	
Kahakuloa	Kahakuloa	5					
Central	Kahului	1					
		Mauhi Lani #5	5229-04	58,692,000	160,800	16.08%	
		Mauhi Lani #6	5229-05	109,722,000	300,608	30.06%	
	Mauhi Lani #7	5229-06	190,710,000	522,493	52.25%		
<b>Kahului Subtotal</b>					<b>983,901</b>	<b>98.39%</b>	
Kamaole	Kamaole	11					
Paia	Paia	7					
		Hamakuapoko 1	5420-02	278,000	762	0.01%	
	Hamakuapoko 2	5320-01	133,643,000	366,145	5.23%		
<b>Paia Subtotal</b>					<b>366,907</b>	<b>5.24%</b>	
Makawao	Makawao	7					
		Pookela	5118-02	374,377,000	1,025,690	14.65%	
<b>Makawao Subtotal</b>					<b>1,025,690</b>	<b>14.65%</b>	
Koolau	Haiku	24					
		Kaupakalua	5317-01	212,517,000	582,238	2.43%	
	Haiku	5419-01	1,501,000	4,112	0.02%		
<b>Haiku Subtotal</b>					<b>586,351</b>	<b>2.44%</b>	
Honopou	Honopou	16					
Waikamoi	Waikamoi	37					
	Kearnae	75					
Kearnae	Kearnae						
		Kearnae 1	5108-01	4,481,000	12,277	0.02%	
Kearnae 2	5108-02	4,849,000	13,285	0.02%			
<b>Kearnae Subtotal</b>					<b>25,562</b>	<b>0.03%</b>	
Hana	Kuhiwa	14					
	Kawaipapa	31					
Hamo	Hamo						
		Hamo 1	4300-02	59,358,000	162,625	0.52%	
Hamo 2	4300-03	65,189,000	178,600	0.58%			



DWS Groundwater Use - Island of Maui							
Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months (G)	Pumpage MAV as of 4/30/2024 (GPD)	% Sustainable Yield - DWS
			Waiuku B	4600-03	12,975,000	35,548	0.11%
			Waiuku C	4600-04	19,068,000	52,241	0.17%
	<b>Kawaipapa Subtotal</b>					<b>429,014</b>	<b>1.38%</b>
	Waihoi	18					
	Kipahulu	15					
Kahikinui	Kaupo	13					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	17,656,000	48,373	0.60%
			Napili B	5838-02	41,558,000	113,858	1.42%
			Napili C	5838-04	423,658,000	1,160,707	14.51%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	148,044,000	405,600	5.07%
	<b>Honolua Subtotal</b>					<b>1,728,537</b>	<b>21.61%</b>
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	19,448,000	53,282	0.76%
			Kanaha 2	5339-04	18,149,000	49,723	0.71%
			Waipuka 1	5339-01	25,234,000	69,134	0.99%
			Waipuka 2	5339-02	15,181,000	41,592	0.59%
	<b>Launiupoko Subtotal</b>					<b>213,732</b>	<b>3.05%</b>
	Olowalu	2					
	Ukumehame	2					



### DWS Groundwater Use - Island of Molokai

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months (G)	Pumpage MAV as of 4/30/2024 (GPD)	% Sustainable Yield - DWS
West	Kaluakoi	2					
	Punakou	2					
Central	Hoolehua	2					
	Manawainui/Palaau	2					
	Kualapuu	5	Kualapuu	0801-03	210,845,000	577,658	11.55%
			Waikalae Tunnel	1059-01	0	0	0.00%
Kualapuu Subtotal					577,658	11.55%	
Southeast	Kamiloloa	3					
	Kawela	5	Kawela	0457-01	3,946,000	10,811	0.22%
			Kawela Subtotal			10,811	0.22%
	Ualapue	8	Ualapue	0449-01	68,307,000	187,142	2.34%
			Ualapue Subtotal			187,142	2.34%
Waialua	6						
Northeast	Kalaupapa	2					
	Kahanui	3					
	Waikolu	5					
	Haupu	2					
	Pelekunu	9					
	Wailau	15					
	Halawa	8					

