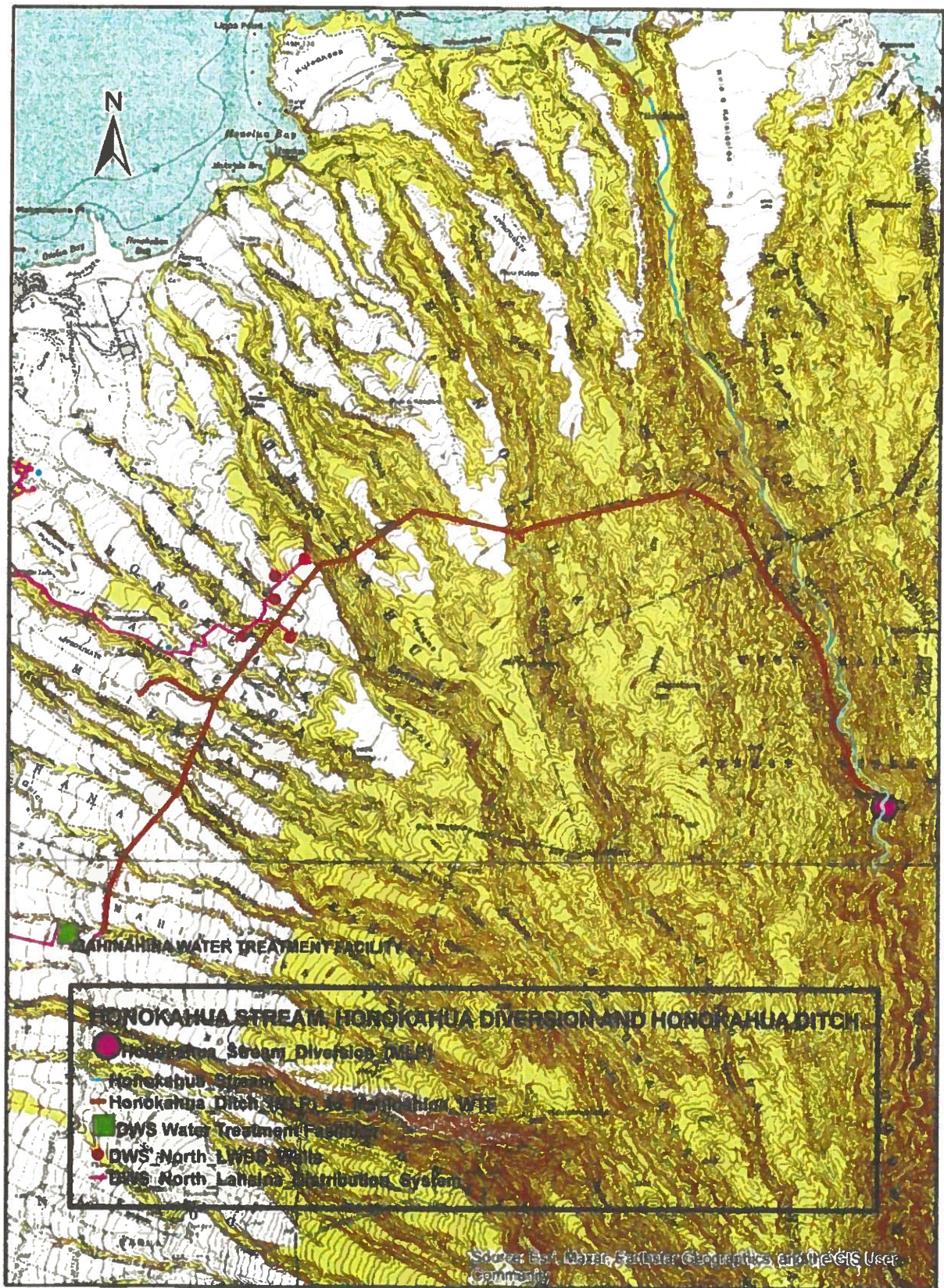
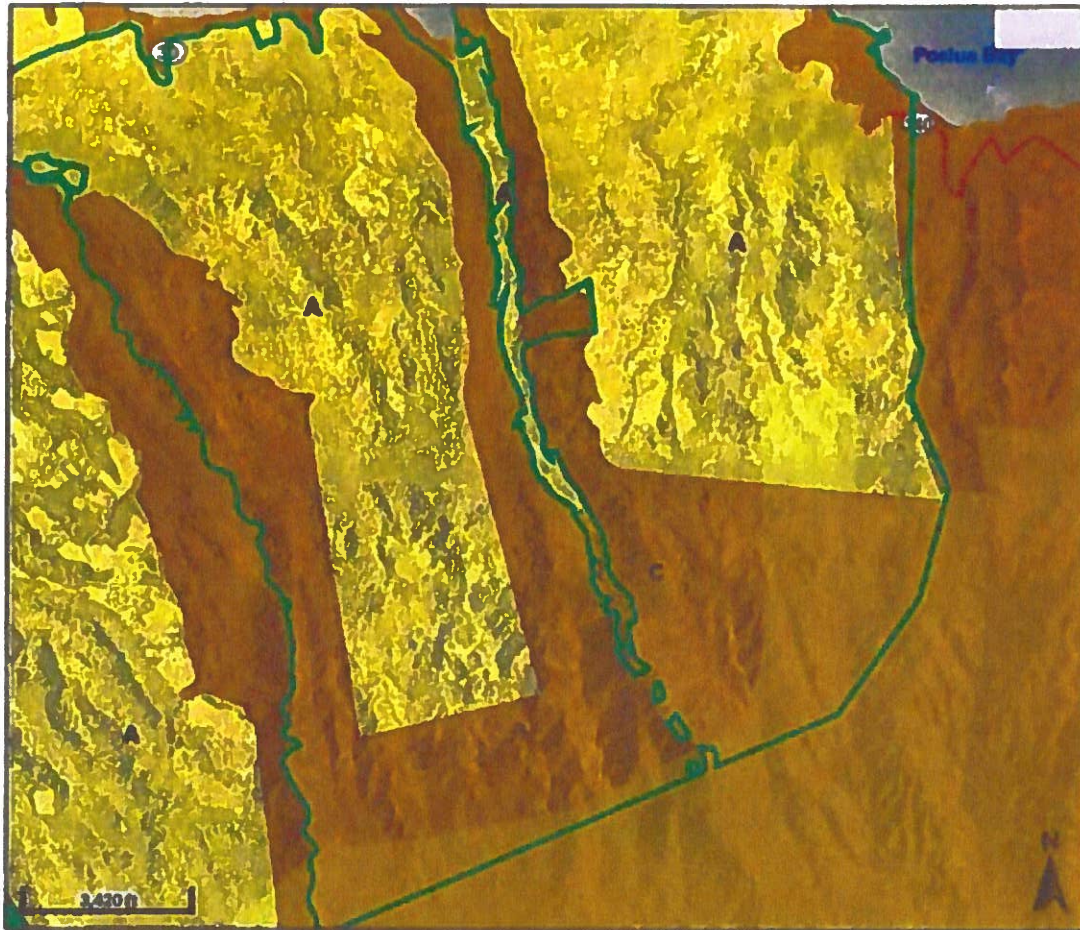


APPENDIX A



APPENDIX B



Overview



Legend

- ☐ Parcels
- ☐ Roads
- State Land Use Districts
 - A
 - C
 - R
 - U

Parcel ID	410010090000	Situs/Physical Address	HONOKOHAU	Assd Land Value	\$1,504,600	Last 2 Sales			
Acreage	5374.668	Mailing Address	MAUI LAND & PINEAPPLE CO	Assd Building Value	\$19,900	Date	Price	Reason	Qual
Class	AGRICULTURAL; CONSERVATION		200 VILLAGE RD LAHAINA HI 96761	Total Assd Value	\$1,524,500	6/25/2021	0	Other	U
				Exempt Value	\$0	11/8/2012	0	n/a	U
				Taxable Value	\$1,524,500				

Brief Tax Description n/a

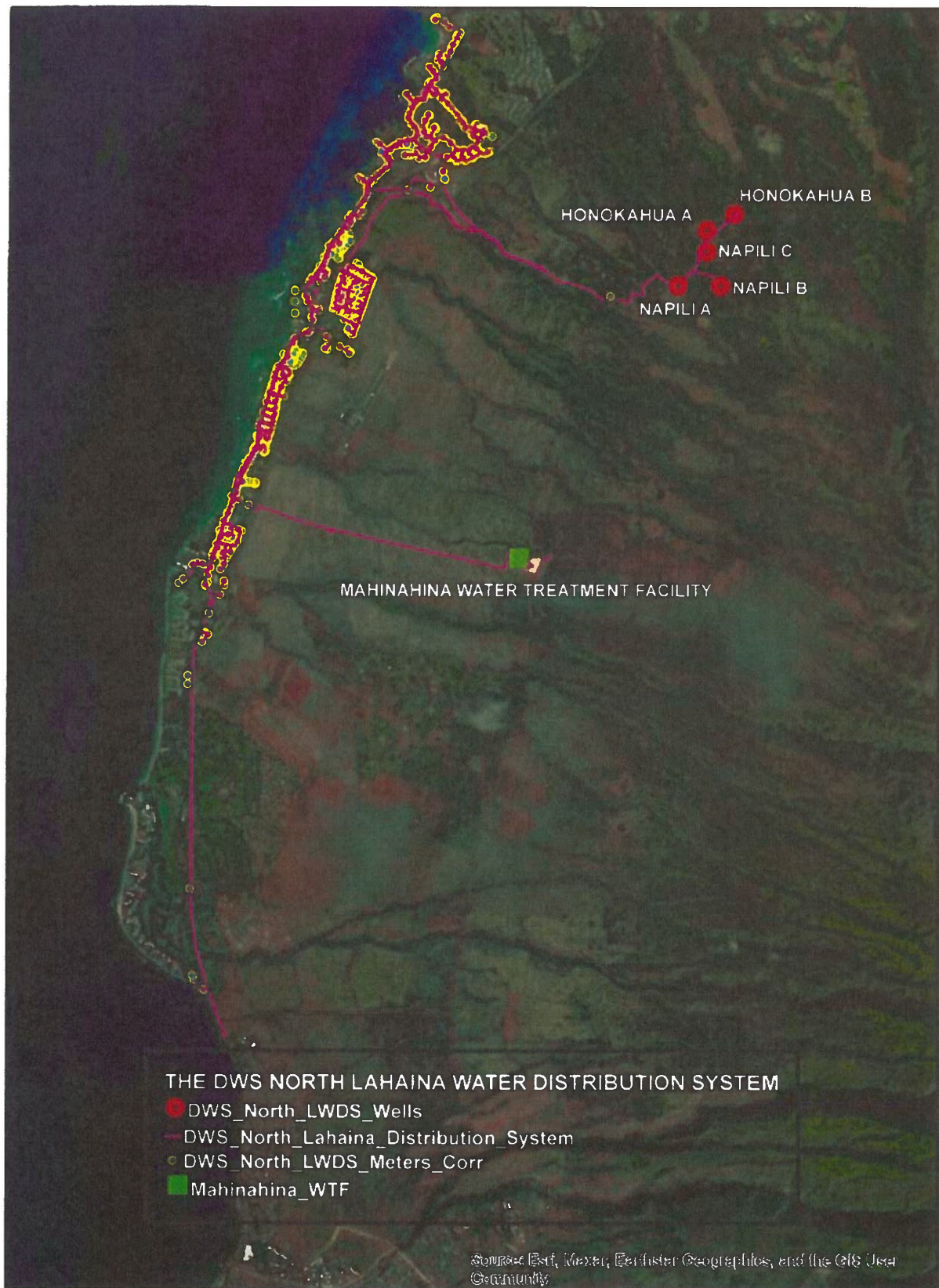
(Note: Not to be used on legal documents)

Date created: 7/19/2023

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APPENDIX C SERVICE AREA



APPENDIX D

INTAKE BAR SCREEN



INTAKE
BAR
SCREEN
(EXIT VIEW)



INTAKE BAR SCREEN CLOSE-UP





HONOKOWAI DITCH EXIT

HONOKOWAI DITCH
(NO FLOW)



HONOKOWAI DITCH



HONOKOWAI DITCH



APPENDIX E

ITEM 17 TABLE 2

Consump_A v	Consump_1	Tmk_val	Wuz_val	Units_v al	Install_dt	Casprem_va	Prem_type_	Entity_nam	ZONE_CLASS	ZONE_ABB RE	LUDCO DE	TaxAcres
223.86	7,339.64	2-4-3-003:122	515	1	12/16/1985	1023466	COM	NAPILI VILLAS AOO (#1526)	A-1 Apartment	A-1	U	2.42
120.68	3,956.83	2-4-3-003:122	515	1	5/29/2002	1034868	LO-RISE	NAPILI VILLAS AOO (#1526)	A-1 Apartment	A-1	U	2.42
224.53	7,361.69	2-4-3-003:122	515	1	5/29/2002	1034869	LO-RISE	NAPILI VILLAS AOO (#1526)	A-1 Apartment	A-1	U	2.42
207.72	6,810.55	2-4-3-003:123	515	1	5/29/2002	1034867	LO-RISE	NAPILI VILLAS AOO (#1526)	A-1 Apartment	A-1	U	2.42
417.39	13,684.81	2-4-3-003:122	515	1	1/29/2002	1034618	LO-RISE	NAPILI VILLAS AOO (#1526)	A-1 Apartment	A-1	U	7.45
395.21	12,957.54	2-4-3-003:122	515	1	1/28/2002	1034616	LO-RISE	NAPILI VILLAS AOO (#1526)	A-1 Apartment	A-1	U	7.45
524.94	17,210.98	2-4-3-003:108	515	64	9/19/1997	1006191	LO-RISE	NAPILIAU VILLAGES	A-1 Apartment	A-1	U	3.85
404.50	13,262.13	2-0-0-000-000	513	56	12/8/1994	1019673	LO-RISE	MAHINA SURF AOO	A-1 Apartment	A-1	U	1.96
228.90	7,504.84	2-0-0-000-000	513	16	3/1/1994	1017105	LO-RISE	KAHANA OUTRIGGER	A-1 Apartment	A-1	U	0.00
21.89	717.57	2-4-4-001-074	513	1	3/31/1988	1007594	LO-RISE	MYNAH VENTURES LLC	A-1 Apartment	A-1	U	0.15
6.00	196.64	2-0-0-000-000	513	2	6/2/1986	1007722	LO-RISE	MYNAH VENTURES	A-1 Apartment	A-1	U	1.12
129.08	4,232.05	2-4-4-001-023	513	29	6/2/1986	1017043	LO-RISE	MYNAH VENTURES	A-1 Apartment	A-1	U	1.12
0.00	0.00	2-4-3-008-001	513	32	5/10/1984	1017034	LO-RISE	MAHINAHINA BEACH AOO	A-1 Apartment	A-1	U	1.78
423.60	13,888.61	2-4-3-008-001	513	32	5/10/1984	1007729	LO-RISE	MAHINAHINA BEACH AOO	A-1 Apartment	A-1	U	1.78
165.30	5,419.70	2-4-3-006-005	513	43	9/30/1980	1017069	LO-RISE	HALE ROYALE HUI	A-1 Apartment	A-1	U	4.96
199.33	6,535.46	2-4-3-006-005	513	43	9/30/1980	1017068	LO-RISE	HALE ROYALE AOO	A-1 Apartment	A-1	U	4.96
89.40	2,931.01	2-0-0-000-000	513	16	11/1/1978	1007731	LO-RISE	HOYOCHI NIKKO ASSN	A-1 Apartment	A-1	U	0.60
397.47	13,031.78	2-0-0-000-000	513	18	11/1/1978	1007602	LO-RISE	THE KULEANA	A-1 Apartment	A-1	U	0.83
379.00	12,426.28	2-4-3-008-002	513	52	11/1/1978	1017080	LO-RISE	POLYNESSAN SHORES	A-1 Apartment	A-1	U	1.06
596.63	19,561.50	2-0-0-000-000	513	42	8/28/1978	1007579	LO-RISE	KAHANA VILLAGE AOO	A-1 Apartment	A-1	U	3.20
409.69	13,432.43	2-4-3-003:122	515	1	1/29/2002	1034620	SFD	NAPILI VILLAS AOO (#1526)	A-1 Apartment	A-1	U	7.45
6.69	219.37	2-4-3-005-074	515	1	3/6/1997	1007243	SFD	SOLICH,CHRISTINE	A-1 Apartment	A-1	U	0.07
6.67	218.63	2-0-0-000-000	515	1	2/20/1997	1007242	SFD	STEIN,ERIK	A-1 Apartment	A-1	U	0.07
8.76	287.16	2-4-3-005-075	515	1	2/20/1997	1007244	SFD	PARIS,ROBERT N	A-1 Apartment	A-1	U	0.07
59.20	1,940.90	2-4-3-009-003	513	1	1/26/1989	1007728	SFD	WHITE,LLOYD	A-1 Apartment	A-1	U	0.88
21.76	713.52	2-4-4-001-084	513	1	8/3/1987	1017044	SFD	RAMOS,EMILIANO S	A-1 Apartment	A-1	U	0.31
46.75	1,532.68	2-4-4-001-073	513	1	1/10/1986	1004759	SFD	SHIN,PATRICK	A-1 Apartment	A-1	U	0.14
8.17	267.70	2-4-3-009-007	513	1	11/1/1978	1017081	SFD	AUGASON,MARK	A-1 Apartment	A-1	U	0.86
211.03	6,919.04	2-4-4-001-042-0000	513	40	3/5/2019	1017056	HOTEL	HALE KAI AOO	A-2 Apartment	A-2	U	1.06
217.57	7,133.28	2-4-3-006-014	513	28	12/5/2018	1017070	HOTEL	HONO KOA	A-2 Apartment	A-2	U	0.88
0.00	0.00	2-4-3-006-014	513	0	7/11/1988	1017070	HOTEL	-	A-2 Apartment	A-2	U	0.88
0.00	0.00	2-4-4-001-042-0000	513	0	11/1/1978	1017056	HOTEL	-	A-2 Apartment	A-2	U	1.06
346.69	11,366.80	2-4-3-021-082	515	1	10/22/2004	1037056	LO-RISE	THE VILLAS AT KAHANA RIDGE AOO	A-2 Apartment	A-2	U	5.08
369.68	12,120.77	2-4-3-021-082	515	1	10/22/2004	1037057	LO-RISE	THE VILLAS AT KAHANA RIDGE AOO	A-2 Apartment	A-2	U	5.08
618.48	20,277.95	2-4-3-006-002	513	32	5/8/2009	1040102	LO-RISE	THE BREAKER AOO	A-2 Apartment	A-2	U	3.05
306.75	10,057.40	2-4-3-006-041	513	53	1/12/1995	1017078	LO-RISE	HALE MAHINA AOO OF MAUI	A-2 Apartment	A-2	U	1.60
0.00	0.00	2-4-3-006-002	513	18	10/1/1990	1017058	LO-RISE	-	A-2 Apartment	A-2	U	3.05
294.30	9,649.13	2-0-0-000-000	513	51	2/7/1990	1007724	LO-RISE	HONOKOWAI EAST AOO	A-2 Apartment	A-2	U	1.46
222.13	7,282.79	2-0-0-000-000	513	67	10/1/1989	1017073	LO-RISE	HALE ONO LOA AOO	A-2 Apartment	A-2	U	1.77
293.37	9,618.66	2-4-3-006-004	513	1	9/26/1989	1017063	LO-RISE	AOAO MAUI LANI TERRACES	A-2 Apartment	A-2	U	4.12
279.41	9,161.07	2-4-4-001-054	513	56	4/4/1989	1017045	LO-RISE	HONOKOWAI VILLAS	A-2 Apartment	A-2	U	1.17
128.32	4,207.05	2-4-4-001-055	513	366	12/28/1978	1017046	LO-RISE	PAPAKEA HM OWN ASSN	A-2 Apartment	A-2	U	12.28
326.08	10,691.09	2-4-3-005-009	513	89	11/1/1978	1007611	LO-RISE	KAHANA REEF	A-2 Apartment	A-2	U	1.96
211.36	6,929.89	2-4-3-006-012	513	30	11/1/1978	1017066	LO-RISE	MAKANI SANDS	A-2 Apartment	A-2	U	0.89
212.88	6,979.78	2-4-3-006-013	513	67	11/1/1978	1017067	LO-RISE	KALEIALOHA	A-2 Apartment	A-2	U	1.26
68.77	2,254.86	2-4-3-006-063	513	12	11/1/1978	1017057	LO-RISE	PIKAKE AOO	A-2 Apartment	A-2	U	1.06
33.71	1,105.14	2-4-3-006-006-0000	513	13	11/1/1978	1007733	LO-RISE	RINEHART,ANDREW	A-2 Apartment	A-2	U	0.55
3,723.12	122,069.51	2-4-4-001-055-0000	513	366	11/1/1978	1017047	LO-RISE	PAPAKEA HOME OWNERS	A-2 Apartment	A-2	U	12.28
500.63	16,414.13	2-4-4-001-038	513	96	7/21/1978	1017055	LO-RISE	WEST MAUI TRADES AOO	A-2 Apartment	A-2	U	1.74
359.79	11,796.48	2-4-3-009-002	513	50	3/2/1977	1007727	LO-RISE	NOELANI CONDOMINIUM	A-2 Apartment	A-2	U	1.43
187.41	6,144.64	2-4-3-006-007	513	29	12/2/1975	1017060	LO-RISE	NOHONANI OWNRS ASSN	A-2 Apartment	A-2	U	0.84
184.77	6,057.92	2-4-3-006-016	513	36	1/6/1972	1017074	LO-RISE	LOKELANI AOO	A-2 Apartment	A-2	U	1.35
157.90	5,177.05	2-0-0-000-000	513	42	7/25/1967	1019672	LO-RISE	NOELANI CONDO	A-2 Apartment	A-2	U	0.00
590.38	19,356.69	2-4-4-001-052	513	76	6/1/1965	1017048	LO-RISE	MAUI SANDS	A-2 Apartment	A-2	U	1.15
49.05	1,608.09	2-0-0-000-000	513	8	8/17/1963	1019671	LO-RISE	NOELANI CONDO	A-2 Apartment	A-2	U	1.43
156.34	5,125.87	2-4-4-001-041	513	30	4/3/1963	1017054	LO-RISE	HONOKOWAI PALMS AOO	A-2 Apartment	A-2	U	1.17
9.68	317.38	2-4-3-006-041	513	53	11/15/1962	1017079	LO-RISE	HALE MAHINA AOO OF MAUI	A-2 Apartment	A-2	U	1.60
1.56	51.09	2-4-4-001-079	513	1	9/13/1983	1017049	SFD	OLIVETI,PROMIS	A-2 Apartment	A-2	U	0.38
9.60	314.70	2-4-3-004-021	515	1	5/23/1996	1008483	COM	Warren,Robin & Tanya	AG Agriculture	AG	A	220.04
13.51	442.87	2-4-3-004-019	515	1	8/6/1986	1019817	COM	MCCOY,BRIAN	AG Agriculture	AG	A	220.04
81.12	2,659.78	2-4-3-001-001	515	1	11/1/1978	1023476	COM	MAUI LAND & PINE CO	AG Agriculture	AG	A	13.80
0.00	0.00	2-0-0-000-000	513	1	6/20/1983	1007564	COM	MAUI LAND & PINE CO	AG Agriculture	AG	A	13.80
14.87	487.43	2-4-3-010-029	515	1	1/21/1999	1006737	SFD	KUROSE,JAMES T	AG Agriculture	AG	A	2.00
15.86	520.03	2-4-3-017-006	515	1	2/4/1987	1002380	SFD	BERMUDEZ,CALEB J	AG Agriculture	AG	A	0.16
10.50	344.10	2-4-3-017-005	515	1	8/29/1986	1002382	SFD	CUNNINGHAM,GERRY	AG Agriculture	AG	A	0.14
10.71	351.20	2-4-3-017-035	515	1	10/1/1985	1008730	SFD	FLETCHER JR,SHELLIE & WALLACE	AG Agriculture	AG	A	0.14
23.98	786.17	2-4-3-017-036	515	1	10/1/1985	1008729	SFD	ROSS,ROGER K	AG Agriculture	AG	A	0.14
10.82	354.64	2-4-3-017-038	515	1	10/1/1985	1008726	SFD	YAMADA,KAYLA	AG Agriculture	AG	A	0.15
3.59	117.81	2-4-3-017-039	515	1	10/1/1985	1008728	SFD	HYTTIA,JUKKA	AG Agriculture	AG	A	0.16
9.75	319.56	2-4-3-017-021	515	1	9/26/1985	1005127	SFD	KING,MARK P	AG Agriculture	AG	A	0.15
4.53	148.50	2-4-3-017-022	515	1	9/26/1985	1005125	SFD	KAUHANE,BERT P	AG Agriculture	AG	A	0.14
7.11	233.06	2-4-3-017-054	515	1	8/13/1985	1018873	SFD	MASSON,LAURA	AG Agriculture	AG	A	0.15
2.12	69.34	2-4-3-010-031	513	1	1/29/2008	1039880	SFD	LAHAINA CHRISTIAN FELLOWSHIP	AG Agriculture	AG	A	2.28
62.54	2,050.49	2-4-3-010-025	513	1	4/2/2004	1036635	SFD	SHAY,DANNY	AG Agriculture	AG	A	2.14
42.54	1,394.64	2-4-3-010-024	513	1	6/6/2000	1033383	SFD	WERNARS,LARS	AG Agriculture	AG	A	2.23
23.82	780.85	2-4-3-010-021	513	1	4/1/1998	1001577	SFD	CORTEZ,DOMINGO	AG Agriculture	AG	A	2.01
176.98	5,802.76	2-4-3-010-027	513	1	11/15/1995	1001578	SFD	PITTS,COOPER	AG Agriculture	AG	A	1.48
38.73	1,269.86	2-4-3-010-026	513	1	5/24/1994	1001569	SFD	NAKAMURA,DENNIS	AG Agriculture	AG	A	1.48
17.78	583.03	2-4-3-003-110	515	1	8/2/1991	1023470	CGOVT	DEPT OF FIRE & PUBLIC SAFETY	AG Agriculture	AG	U	1.09
0.00	0.00	2-0-0-000-000	513	1	1/12/1983	1006127	COM	COUNTY OF MAUI - PARKS DEPT.	AG Agriculture	AG	U	1.00
147.89	4,848.85	2-0-0-000-000	511	1	8/18/1983	1006129	COM	COUNTY OF MAUI - PARKS DEPT.	AG Agriculture	AG	U	3.69
311.24	10,204.43	2-0-0-000-000	511	1	8/18/1983	1006128	COM	COUNTY OF MAUI - PARKS DEPT.	AG Agriculture	AG	U	0.00
30.83	1,010.93	2-0-0-000-000	515	1	4/18/1986	1015229	RELIGION	HONOLUA METH CHURCH	AG Agriculture	AG	U	1.00
6.97	228.47	2-4-3-018-027	515	1	11/2/1998	1027430	SFD	DELA CRUZ,JOHN N	AG Agriculture	AG	U	0.14
6.22	203.91	2-4-3-018-002	515	1	10/21/1992	1027438	SFD	WILCOX,ROBERT E	AG Agriculture	AG	U	0.18
17.29	566.75	2-4-3-018-026	515	1	10/21/1992	1019758	SFD	BALMORES,IRINEO	AG Agriculture	AG	U	0.14
5.64	184.89	2-4-3-018-036	515	1	10/21/1992	1019763	SFD	MONTANO,DYLAN	AG Agriculture	AG	U	0.13
8.59	281.67	2-4-3-018-007	515	1	11/13/1991	1027444	SFD	GILES,JOSH	AG Agriculture	AG	U	0.14
28.67	939.95	2-4-3-018-014	515	1	10/1/1991	1027453	SFD	HAILEY,BAMBI	AG Agriculture	AG	U	0.13
19.12	626.80	2-4-3-018-043	515	1	10/1/1991	1019764	SFD	RINEN,ERNIE & AILYN	AG Agriculture	AG	U	0.13
16.26	532.98	2-4-3-018-003	515	1	9/5/1991	1027440	SFD	SUCHER,COURTNEY	AG Agriculture	AG		

19.01	623.22	2-4-3-017-002	515	1	11/25/1985	1002377	SFD	HEMM,KATHERINE A	AG Agriculture	AG	U	0.15
1.26	41.39	2-4-3-017-003	515	1	11/25/1985	1002375	SFD	ALM,GEOFFRY	AG Agriculture	AG	U	0.14
10.25	336.04	2-4-3-017-014	515	1	11/21/1985	1015220	SFD	CASCO,GORDON	AG Agriculture	AG	U	0.15
14.48	474.62	2-4-3-017-018	515	1	11/20/1985	1005133	SFD	ALLEN,WILLIAM P	AG Agriculture	AG	U	0.14
8.49	278.50	2-4-3-017-029	515	1	11/20/1985	1005123	SFD	MICHIMOTO,GLENN & SANDRA	AG Agriculture	AG	U	0.14
12.42	407.21	2-4-3-017-045	515	1	10/2/1985	1015223	SFD	YEDA MILES & JEAN	AG Agriculture	AG	U	0.14
7.35	241.07	2-4-3-017-023	515	1	9/30/1985	1005124	SFD	NORMAN,JERRY A	AG Agriculture	AG	U	0.14
3.26	106.80	2-4-3-017-030	515	1	9/30/1985	1015221	SFD	LEMKE,TOM	AG Agriculture	AG	U	0.14
2.33	76.53	2-4-3-017-033	515	1	9/30/1985	1008722	SFD	ARMSTRONG,MICHELE	AG Agriculture	AG	U	0.14
20.62	675.96	2-4-3-017-001	515	1	9/27/1985	1002378	SFD	MOFFETT,WILLIAM B	AG Agriculture	AG	U	0.15
4.94	161.89	2-4-3-017-004	515	1	9/27/1985	1002384	SFD	TRAINER,SEAN	AG Agriculture	AG	U	0.14
3.45	113.09	2-4-3-017-015	515	1	9/26/1985	1005122	SFD	KAINA,ANDREW K SR	AG Agriculture	AG	U	0.14
4.26	139.73	2-4-3-017-020	515	1	9/26/1985	1005129	SFD	FORSYTHE,DEMMING	AG Agriculture	AG	U	0.14
0.97	31.80	2-4-3-017-024	515	1	9/26/1985	1005126	SFD	MUNEMITSU,LEE J	AG Agriculture	AG	U	0.14
9.81	321.53	2-4-3-017-046	515	1	8/14/1985	1018864	SFD	POTTS,LES L	AG Agriculture	AG	U	0.00
5.99	196.26	2-4-3-017-047	515	1	8/14/1985	1018861	SFD	DREIBELBIS,KURT	AG Agriculture	AG	U	0.14
5.94	194.70	2-4-3-017-048	515	1	8/14/1985	1018883	SFD	LA BORE,ANDREA	AG Agriculture	AG	U	0.16
5.56	182.13	2-4-3-017-050	515	1	8/14/1985	1018880	SFD	RESPICIO,VICENTE	AG Agriculture	AG	U	0.17
13.12	430.14	2-4-3-017-051	515	1	8/14/1985	1018878	SFD	RODRIGUES,TONI M	AG Agriculture	AG	U	0.15
9.93	325.49	2-4-3-017-052	515	1	8/13/1985	1018876	SFD	STEPHENS,AMY	AG Agriculture	AG	U	0.14
10.27	336.75	2-4-3-017-056	515	1	8/13/1985	1018870	SFD	NAKAMURA,DENNIS	AG Agriculture	AG	U	0.15
3.18	104.13	2-4-3-017-057	515	1	8/13/1985	1018868	SFD	LEMIRE,JUSTIN PETER	AG Agriculture	AG	U	0.14
12.63	414.04	2-0-0-000-000	515	1	6/25/1985	1015226	SFD	HALE LAHAINA	AG Agriculture	AG	U	0.00
258.53	8,476.42	2-4-4-001-014	513	1	7/27/1998	1007589	COM	HONOLULU LLC	B-2 Business - Community	B-2	A	3.35
127.05	4,165.46	2-4-4-001-002	513	1	7/27/1998	1007588	IND	QSI INC	B-2 Business - Community	B-2	A	3.35
63.19	2,071.78	2-4-4-001-002-0000	513	1	7/27/1998	1007587	IND	HONOLULU LLC	B-2 Business - Community	B-2	A	3.35
598.83	19,633.66	2-0-0-000-000	515	1	12/12/1990	1007818	COM	KAHANA PROFESSIONAL PARTNERS I LLC (1	B-2 Business - Community	B-2	U	0.91
54.18	1,776.50	2-4-4-001-014	513	1	7/27/1998	1007590	COM	HONOLULU LLC	B-2 Business - Community	B-2	U	0.43
39.17	1,284.40	2-4-4-001-057	513	1	1/21/1985	1007736	COM	M N S LTD	B-2 Business - Community	B-2	U	0.73
55.57	1,822.02	2-4-4-001-060	513	1	11/1/1978	1007737	COM	KAANAPALI MARKETPLACE LLC	B-2 Business - Community	B-2	U	0.32
528.10	17,314.62	2-4-3-003-109	515	1	1/27/1999	1023481	IND	ABP NAPILI LLC	B-2 Business - Community	B-2	U	4.05
357.89	11,734.10	2-4-3-005-034	515	1	12/12/1990	1007609	IND	KAHANA PARTNERS I LLC (106)	B-2 Business - Community	B-2	U	3.95
364.97	11,966.17	2-4-3-005-034	515	1	12/12/1990	1007610	IND	KAHANA PARTNERS I LLC (106)	B-2 Business - Community	B-2	U	3.95
0.00	0.00	2-4-4-001-000	513	1	9/4/1998	1007592	IND	HONOLULU LLC	B-2 Business - Community	B-2	U	0.88
279.52	9,164.45	2-4-4-001-014	513	1	7/27/1998	1007591	IND	HONOLULU LLC	B-2 Business - Community	B-2	U	0.00
33.62	1,102.38	2-4-3-005-034	513	1	5/30/1990	1007819	IND	GREYLYN OF LAHAINA LLC	B-2 Business - Community	B-2	U	0.65
560.51	18,377.46	2-0-0-000-000	515	73	12/12/1990	1007608	LO-RISE	KAHANA GATEWAY LLC	B-2 Business - Community	B-2	U	3.95
0.00	0.00	2-4-4-001-034	513	48	6/29/1988	1017051	LO-RISE	MAUI BEACH FRONT RESIDENTIAL LLC	B-2 Business - Community	B-2	U	6.75
1,043.46	34,211.80	2-4-4-001-034	513	144	6/23/1988	1017053	LO-RISE	MAUI BEACH FRONT RESIDENTIAL LLC	B-2 Business - Community	B-2	U	6.75
151.81	4,977.27	2-4-4-001-034	513	96	2/3/1988	1017052	LO-RISE	MAUI BEACH FRONT RESIDENTIAL LLC	B-2 Business - Community	B-2	U	6.75
242.91	7,964.18	2-4-3-006-011	513	42	11/1/1978	1017064	LO-RISE	KULAKANE APT OWNERS	B-2 Business - Community	B-2	U	1.16
12.36	405.38	2-4-4-001-072	513	1	11/1/1978	1007595	SFD	YARBOROUGH,HANNAH V	B-3 Business - Central District	B-3	U	0.30
21.61	708.66	2-4-4-001-029	513	1	10/12/1972	1007596	SFD	MAUI BEACHFRONT TWO LLC	B-3 Business - Central District	B-3	U	0.51
1.87	61.42	2-0-0-000-000	515	1	7/21/1987	1012404	CGOVT	WASTEWATER RECLAMATION DIVISION	Beach Right-of-Way	BRW	U	1.01
0.00	0.00	2-0-0-000-000	515	1	11/1/1978	1012403	COM	KAPALUA RESORT ASSOCIATION	Beach Right-of-Way	BRW	U	1.01
211.58	6,937.19	2-4-3-002-049	515	15	8/9/1991	1017144	LO-RISE	TALES INC	CID Napili Bay Civic Improvement Di	CID	A	0.95
303.28	9,943.47	2-4-2-002-015	515	1	1/15/2004	1036531	HOTEL	NAPILI KAI LTD	CID Napili Bay Civic Improvement Di	CID	U	1.28
1,408.45	46,178.74	2-4-3-002-029	515	1	1/15/2004	1036530	HOTEL	NAPILI KAI LTD	CID Napili Bay Civic Improvement Di	CID	U	1.37
247.92	8,128.44	2-4-3-002-061	515	1	12/20/1994	1017165	HOTEL	NAPILI SHORES	CID Napili Bay Civic Improvement Di	CID	U	6.33
1,103.76	36,188.96	2-4-3-002-061	515	1	12/20/1994	1017166	HOTEL	NAPILI SHORES	CID Napili Bay Civic Improvement Di	CID	U	6.33
225.09	7,380.11	2-4-2-002-001	515	1	11/1/1978	1007663	HOTEL	NAPILI KAI LTD	CID Napili Bay Civic Improvement Di	CID	U	1.03
1,391.07	45,608.69	2-4-3-002-061	515	1	11/1/1978	1007657	HOTEL	NAPILI SHORES	CID Napili Bay Civic Improvement Di	CID	U	6.33
291.10	9,544.34	2-4-3-002-029	515	1	11/15/1967	1007664	HOTEL	NAPILI KAI LTD	CID Napili Bay Civic Improvement Di	CID	U	1.37
136.57	4,477.65	2-4-3-002-052	515	34	9/14/1994	1007567	LO-RISE	NAPILI BAY RESORT	CID Napili Bay Civic Improvement Di	CID	U	0.99
191.89	6,291.34	2-4-3-016-032	515	20	6/25/1979	1008423	LO-RISE	KIPA VILLAGE AOA	CID Napili Bay Civic Improvement Di	CID	U	1.37
256.48	8,409.23	2-0-0-000-000	515	20	11/1/1978	1004761	LO-RISE	PUNA II OWNERS ASSN	CID Napili Bay Civic Improvement Di	CID	U	0.78
367.74	12,056.97	2-0-0-000-000	515	37	11/1/1978	1007665	LO-RISE	NAPILI/IANI OWN R ASSN	CID Napili Bay Civic Improvement Di	CID	U	1.98
117.96	3,867.65	2-4-3-002-054-0000	515	15	11/1/1978	1008472	LO-RISE	NAPILI SUNSET	CID Napili Bay Civic Improvement Di	CID	U	1.39
712.25	23,352.32	2-4-3-016-006	515	132	11/1/1978	1008418	LO-RISE	NAPILI RIDGE	CID Napili Bay Civic Improvement Di	CID	U	3.66
479.89	15,733.93	2-0-0-000-000	515	75	10/12/1977	1007566	LO-RISE	NAPILI POINT I AOA	CID Napili Bay Civic Improvement Di	CID	U	3.46
195.26	6,401.83	2-0-0-000-000	515	20	6/13/1977	1007666	LO-RISE	PUNA POINT OWRS ASS	CID Napili Bay Civic Improvement Di	CID	U	1.01
141.86	4,651.26	2-4-3-002-053-0000	515	12	1/22/1975	1008470	LO-RISE	NAPILI SUNSET	CID Napili Bay Civic Improvement Di	CID	U	0.49
253.93	8,325.41	2-4-3-002-019	515	38	5/9/1968	1017142	LO-RISE	HONOKEANA COVE	CID Napili Bay Civic Improvement Di	CID	U	1.46
266.30	8,731.09	2-4-3-002-040	513	35	1/31/1990	1017156	LO-RISE	GARDENS AT W MAUI	CID Napili Bay Civic Improvement Di	CID	U	1.38
14.11	462.46	2-4-3-016-053	515	2	3/12/1986	1032544	SFD	CIABURRI,MARK	CID Napili Bay Civic Improvement Di	CID	U	0.23
0.03	0.90	2-4-3-016-055	515	2	1/31/1985	1032545	SFD	SIMS,RYAN T	CID Napili Bay Civic Improvement Di	CID	U	0.23
7.85	257.49	2-4-3-016-054	513	2	2/21/1984	1008454	SFD	THOMASON,ERIK A L	CID Napili Bay Civic Improvement Di	CID	U	0.23
599.45	19,653.96	2-0-0-000-000	513	85	5/27/1993	1007578	LO-RISE	POHAILANI MAUI AOA	D-1 Duplex	D-1	U	8.06
506.33	16,601.09	2-0-0-000-000	513	8	2/1/1989	1007671	LO-RISE	POHAILANI MAUI AOA	D-1 Duplex	D-1	U	8.06
0.00	0.00	2-4-3-005-030	513	1	10/19/2006	1038471	SFD	-	D-1 Duplex	D-1	U	0.46
1,011.86	33,175.74	2-4-4-001-098-0000	513	1	2/2/1995	1009562	HOTEL	KAANAPALI BEACH CLUB	H Hotel	H	U	7.57
1,094.47	35,884.32	2-4-4-001-098-0000	513	1	5/19/1994	1009561	HOTEL	KAANAPALI BEACH CLUB	H Hotel	H	U	7.57
1,102.77	36,156.26	2-4-4-001-098-0000	513	1	6/17/1993	1009559	HOTEL	KAANAPALI BEACH CLUB	H Hotel	H	U	7.57
702.66	23,037.90	2-4-4-001-098-0000	513	1	12/9/1988	1009560	HOTEL	KAANAPALI BEACH CLUB	H Hotel	H	U	7.57
4,090.48	134,114.02	2-4-4-001-098-0000	513	1	12/9/1988	1009557	HOTEL	KAANAPALI BEACH CLUB	H Hotel	H	U	7.57
1,150.65	37,726.34	2-4-4-001-099	513	217	11/1/1978	1009558	LO-RISE	THE MAHANA AT KAAANAPALI	H Hotel	H	U	5.01
445.24	14,598.01	2-4-4-001-100	513	79	11/1/1978	1009563	LO-RISE	MAUI KAI	H Hotel	H	U	1.72
0.00	0.00	2-4-4-014-006	515	0	1/1/2022	1039315	HOTEL	HONUA KAI CONDO ASSOC INC	H-2 Hotel	H-2	U	34.65
1,291.48	42,343.69	2-4-4-014-006	515	1	9/6/2007	1039314	HOTEL	HONUA KAI CONDO ASSOC INC	H-2 Hotel	H-2	U	34.65
1,985.58	65,101.04	2-4-4-014-006	515	1	9/6/2007	1039315	HOTEL	HONUA KAI CONDO ASSOC INC	H-2 Hotel	H-2	U	34.65
0.00	0.00	2-4-4-014-006	515	1	2/21/2006	1037996	HOTEL	-	H-2 Hotel	H-2	U	34.65
310.51	10,180.49	2-4-3-010-004	513	1	1/10/1994	1030172	HOTEL	VALLEY ISLE RESORT	H-2 Hotel	H-2	U	3.05
385.33	12,633.63	2-4-3-010-004	513	1	1/10/1994	1030173	HOTEL	VALLEY ISLE RESORT	H-2 Hotel	H-2	U	3.05
116.20	3,809.81	2-4-3-010-009	515	31	2/20/1986	1017100	LO-RISE	HOLOLANI CONDO AOA	H-2 Hotel	H-2	U	1.43
255.61	8,380.52	2-4-3-010-009	515	32	10/15/1974	1017101	LO-RISE	HOLOLANI CONDO AOA	H-2 Hotel	H-2	U	1.43
13.04	427.57	2-0-0-000-000	513	21	2/1/1994	1017102	LO-RISE	POHAILANI MAUI AOA	H-2 Hotel	H-2	U	8.06
248.12	8,135.14	2-4-3-010-001	513	42	11/1/1978	1007606	LO-RISE	KAHANA BEACH RESORT AOA	H-2 Hotel	H-2	U	1.02
375.39	12,307.95	2-4-3-010-007	513	236	9/9/1975	1017098	LO-RISE	ROYAL KAHANA OWNERS	H-2 Hotel	H-2	U	0.00
887.92	29,112.13	2-4-3-010-007	513	236	9/9/1975	1017099	LO-RISE	ROYAL KAHANA OWNERS	H-2 Hotel	H-2	U	3.31
6.10	199.84	2-4-3-021-007	515	1	6/9/2000	1033386	SFD	FLORES,DAVE	H-2 Hotel	H-2	U	3.05
134.99	4,425.85	2-4-3-010-013	513	1	8/11/1981	1017087	HOTEL	KAHANA VILLA AOA	H-M Hotel	H-M	U	5.08
197.66												

26.65	873.77	2-4-4-001:004	513	1	5/22/1991	1017041	CGOVT	DEPT OF PUB WORKS	P-1 Public/Quasi-Public	P-1	U	6.50
14.77	484.15	2-4-4-002:029	513	1	1/29/1986	1007570	CGOVT	WASTEWATER RECLAMATION DIVISION	P-1 Public/Quasi-Public	P-1	U	7.93
13.22	433.47	2-4-4-001-104-0000	513	1	7/9/1980	1007572	CGOVT	WASTEWATER RECLAMATION DIVISION	P-1 Public/Quasi-Public	P-1	U	6.50
117.35	3,847.43	2-4-4-001:046	513	1	11/1/1978	1007744	CGOVT	COUNTY OF MAUI - PARKS DEPT.	PK Park	PK	U	2.73
6.77	221.83	2-4-3-022:010	513	1	4/8/1999	1016990	SFD	YI,KYUIN	R-0 Residential	R-0	U	0.07
8.89	291.31	2-4-3-022:008	513	1	3/12/1999	1017007	SFD	KAPANICAS,HEIKE	R-0 Residential	R-0	U	0.09
8.90	291.94	2-4-3-022:009	513	1	3/12/1999	1017008	SFD	MICKELSEN,JILL	R-0 Residential	R-0	U	0.08
8.67	284.21	2-4-3-022:017	513	1	3/12/1999	1016997	SFD	DECKERT,STEVEN	R-0 Residential	R-0	U	0.08
13.36	438.03	2-4-3-022:018	513	1	3/12/1999	1016998	SFD	BERTRAM,JENNIFER	R-0 Residential	R-0	U	0.08
10.55	345.96	2-4-3-022:019	513	1	3/12/1999	1016999	SFD	RYSKO,GLENN	R-0 Residential	R-0	U	0.08
16.05	526.37	2-4-3-022:001	513	1	2/17/1999	1016989	SFD	TORRES,MORGAN	R-0 Residential	R-0	U	0.12
7.33	240.30	2-4-3-022:002	513	1	2/17/1999	1017000	SFD	SYKES,HALLIE	R-0 Residential	R-0	U	0.12
9.76	319.92	2-4-3-022:011	513	1	2/17/1999	1016991	SFD	WEGNER,ROSA	R-0 Residential	R-0	U	0.10
15.12	495.85	2-4-3-022:012	513	1	2/17/1999	1016992	SFD	MASSERMAN,OREN	R-0 Residential	R-0	U	0.12
6.67	218.55	2-4-3-022:013	513	1	2/17/1999	1016993	SFD	MILLER,DAVE	R-0 Residential	R-0	U	0.08
5.90	193.28	2-4-3-022:014	513	1	2/17/1999	1016994	SFD	NUGENT,PATRICK T	R-0 Residential	R-0	U	0.59
10.05	329.45	2-4-3-006:059	513	1	12/15/1997	1005114	SFD	YAMADA,EIMA	R-0 Residential	R-0	U	0.09
5.88	192.70	2-4-3-006:072	513	1	12/15/1997	1005096	SFD	ELLIOT,STEPHEN H	R-0 Residential	R-0	U	0.09
7.27	238.42	2-4-3-006:073	513	1	12/15/1997	1005097	SFD	MUNOZ,SERGIO	R-0 Residential	R-0	U	0.08
0.24	7.84	2-4-3-006:074	513	1	12/15/1997	1005099	SFD	PERCY,LINDA	R-0 Residential	R-0	U	0.09
5.15	168.85	2-4-3-006:076	513	1	12/15/1997	1005103	SFD	KENKNIGHT,FRED/ANN	R-0 Residential	R-0	U	0.10
8.48	277.90	2-4-3-006:077	513	1	12/12/1997	1005105	SFD	MUSIELAK,VICTOR	R-0 Residential	R-0	U	0.10
5.11	167.46	2-4-3-006:080	513	1	12/12/1997	1005111	SFD	PECK,JOHN M	R-0 Residential	R-0	U	0.10
17.53	574.67	2-4-3-006:092	513	1	12/12/1997	1005100	SFD	SCHWARTZLOW,KARL	R-0 Residential	R-0	U	0.09
8.48	277.95	2-4-3-006:093	513	1	12/12/1997	1005098	SFD	MILLER,MARIA T	R-0 Residential	R-0	U	0.10
9.90	324.56	2-4-3-006:075	513	1	12/10/1997	1005101	SFD	QUISENG,BEN	R-0 Residential	R-0	U	0.09
5.26	172.43	2-4-3-006:078	513	1	12/10/1997	1005108	SFD	PRIOR,DON	R-0 Residential	R-0	U	0.10
5.05	165.55	2-4-3-006:079	513	1	12/10/1997	1005109	SFD	PARNELL,RAY	R-0 Residential	R-0	U	0.10
4.61	151.07	2-4-3-006:081	513	1	12/10/1997	1005113	SFD	GALLAFENT,BARRY	R-0 Residential	R-0	U	0.09
5.84	191.58	2-4-3-006:082	513	1	12/10/1997	1005115	SFD	MCLISH,DON	R-0 Residential	R-0	U	0.11
0.00	0.00	2-4-3-006:083	513	1	12/10/1997	1005117	SFD	-	R-0 Residential	R-0	U	0.11
6.73	220.49	2-4-3-006:084	513	1	12/5/1997	1005116	SFD	FINAMORE,PAMELA L	R-0 Residential	R-0	U	0.12
4.35	142.76	2-4-3-006:094	513	1	12/5/1997	1005095	SFD	KESSLER,CATHERINE	R-0 Residential	R-0	U	0.12
8.17	267.70	2-4-3-006:042	513	2	11/1/1978	1007597	SFD	OLDROYD,JONATHAN	R-0 Residential	R-0	U	0.12
10.78	353.33	2-4-3-006:055	513	1	11/1/1978	1017061	SFD	KIKUYAMA IRREVOCABLE TRUST	R-0 Residential	R-0	U	0.05
6.63	217.32	2-4-3-006:057	513	1	11/1/1978	1007725	SFD	NGUYEN,TRINH	R-0 Residential	R-0	U	0.11
0.07	2.43	2-4-3-021-024-0000	515	1	2/12/2018	0	SFD	NAMANNY,SCOTT	R-1 Residential	R-1	A	0.16
11.40	373.61	2-4-3-021:022	515	1	10/19/2015	0	SFD	LARSON,JOAN M	R-1 Residential	R-1	A	0.20
14.34	470.00	2-4-3-021:018	515	1	9/3/2003	1036313	SFD	SILARD,STEPHEN A	R-1 Residential	R-1	A	0.19
5.50	180.16	2-4-3-021:023	515	1	2/6/2002	1034635	SFD	SORENSEN,LARS	R-1 Residential	R-1	A	0.20
19.28	632.27	2-4-3-005:070	515	1	10/17/2001	1034410	SFD	BAILEY,MATTHEW	R-1 Residential	R-1	A	0.14
19.39	635.74	2-4-3-005:093	515	1	10/16/2001	1034398	SFD	MCGILL,SCOTT	R-1 Residential	R-1	A	0.14
17.51	574.02	2-4-3-021:020	515	1	9/18/2001	1034344	SFD	CABANILLO,ANGELITO	R-1 Residential	R-1	A	0.18
12.42	407.05	2-4-3-005:092	515	1	9/5/2001	1034306	SFD	WARWICK,TERRY	R-1 Residential	R-1	A	0.14
6.76	221.50	2-4-3-021:019	515	1	8/28/2001	1034277	SFD	GALAN,ABE & HEATHER	R-1 Residential	R-1	A	0.18
21.96	720.03	2-4-3-021:021	515	1	4/25/2001	1034047	SFD	LEON,FLORENTINE	R-1 Residential	R-1	A	0.18
9.72	318.83	2-4-3-021:015	515	1	12/13/2000	1033754	SFD	ZAJAC,STANLEY	R-1 Residential	R-1	A	0.16
14.50	475.33	2-4-3-021:016	515	1	2/18/2000	1033200	SFD	TAKESHITA,RIAN	R-1 Residential	R-1	A	0.16
8.54	280.08	2-4-3-021:017	515	1	11/9/1999	1033009	SFD	ANGLIN,DAVID	R-1 Residential	R-1	A	0.15
0.34	11.26	2-0-0-000:000	513	1	3/10/1986	1017033	CGOVT	WASTEWATER RECLAMATION DIVISION	R-1 Residential	R-1	U	0.37
31.84	1,043.93	2-4-3-020:096	515	1	7/18/2001	1034237	COM	KAHANA RIDGE ASSOCIATION INC	R-1 Residential	R-1	U	0.17
18.45	604.95	2-4-3-020-093-0000	515	1	10/1/2018	0	SFD	KEVER,WAYNE	R-1 Residential	R-1	U	0.14
12.91	423.33	2-4-3-021:056	515	1	9/18/2014	0	SFD	HANOANO,ALEXA	R-1 Residential	R-1	U	0.19
18.65	611.61	2-4-3-020:119	515	1	1/22/2014	0	SFD	MASON,ROBERT J	R-1 Residential	R-1	U	0.20
19.21	629.86	2-4-3-020:064	515	1	9/27/2012	1040601	SFD	LIBITSKY,JOSHUA	R-1 Residential	R-1	U	0.17
20.44	670.27	2-4-3-020:101	515	1	2/27/2012	1040466	SFD	LOVITT,CHRISTINA A	R-1 Residential	R-1	U	0.17
8.46	277.51	2-4-3-020:111	515	1	10/9/2009	1040155	SFD	SAGER,JERRY	R-1 Residential	R-1	U	13.04
13.85	454.23	2-4-3-021:047	515	1	8/25/2009	1040130	SFD	FRANK NICHOLS FAMILY TRUST	R-1 Residential	R-1	U	0.19
12.13	397.70	2-4-3-020:039	515	1	11/8/2006	1038500	SFD	GALLAGHER,ANDREW	R-1 Residential	R-1	U	0.16
14.04	460.46	2-4-3-020:094	515	1	3/14/2006	1038114	SFD	NAKAJIMA,YU	R-1 Residential	R-1	U	0.15
15.97	523.55	2-4-3-021:026	515	1	10/26/2005	1037754	SFD	SMITH,GAMZE	R-1 Residential	R-1	U	0.15
19.29	632.54	2-4-3-020:019	515	1	6/7/2005	1037515	SFD	ZINSMEYER,JONATHAN	R-1 Residential	R-1	U	0.15
1.69	55.38	2-4-3-020:086	515	1	12/8/2004	1037089	SFD	HESSLER,MELISSA	R-1 Residential	R-1	U	0.15
9.47	310.63	2-4-3-020:043	515	1	11/18/2004	1037064	SFD	JARMAKANI,JAY	R-1 Residential	R-1	U	0.15
5.89	193.14	2-4-3-021:055	515	1	11/18/2004	1037066	SFD	LIMON,ERNESTO JR	R-1 Residential	R-1	U	0.25
11.38	372.98	2-4-3-020:030	515	1	9/16/2004	1037015	SFD	INOUEJAS,DIGNA	R-1 Residential	R-1	U	0.16
22.03	722.32	2-4-3-020:107	515	1	6/7/2004	1036699	SFD	GARNIER,KEVIN	R-1 Residential	R-1	U	0.17
8.92	292.51	2-4-3-020:040	515	1	4/21/2004	1036642	SFD	BREEN,JEANNE	R-1 Residential	R-1	U	0.16
12.46	408.42	2-4-3-021:045	515	1	12/5/2003	1036476	SFD	DONALDSON,SUSAN	R-1 Residential	R-1	U	0.19
10.55	345.87	2-4-3-020:033	515	1	9/19/2003	1036323	SFD	YDENS,Irene	R-1 Residential	R-1	U	0.15
5.92	194.04	2-4-3-021:087	515	1	9/9/2003	1036317	SFD	WACKER,KEN	R-1 Residential	R-1	U	0.18
19.41	636.48	2-4-3-021:097	515	1	8/5/2003	1036237	SFD	MORRIS,MELANIE	R-1 Residential	R-1	U	0.16
11.56	379.07	2-4-3-020:062	515	1	8/4/2003	1036230	SFD	FRANZ,STEVE	R-1 Residential	R-1	U	0.17
15.94	522.62	2-4-3-020:092	515	1	7/10/2003	1036074	SFD	HUNTER,MARLA	R-1 Residential	R-1	U	0.18
7.85	257.46	2-4-3-021:041	515	1	5/21/2003	1035830	SFD	SHAW,CAROLE J	R-1 Residential	R-1	U	0.15
6.47	212.10	2-4-3-020:120	515	1	4/7/2003	1035775	SFD	YAMADA,KAY	R-1 Residential	R-1	U	0.17
20.26	664.29	2-4-3-021:053	515	1	3/10/2003	1035601	SFD	KBM HAWAII	R-1 Residential	R-1	U	0.18
7.84	257.16	2-4-3-020:117	515	1	2/11/2003	1035565	SFD	BRIDGES,JANET	R-1 Residential	R-1	U	0.14
5.68	186.34	2-4-3-020:114	515	1	10/1/2002	1035244	SFD	Kawaguchi,Todd	R-1 Residential	R-1	U	0.14
6.58	215.77	2-4-3-021:109	515	1	8/20/2002	1035191	SFD	SERA,EDWIN	R-1 Residential	R-1	U	0.17
16.09	527.54	2-4-3-020:059	515	1	8/2/2002	1035166	SFD	CUMMINGS,JEFF	R-1 Residential	R-1	U	0.17
19.25	631.04	2-4-3-021:013	515	1	8/1/2002	1035157	SFD	FARRIS,ERIC/JAMI	R-1 Residential	R-1	U	0.15
11.15	365.46	2-4-3-021:030	515	1	8/1/2002	1035158	SFD	KRAMER,RANDOLPH M	R-1 Residential	R-1	U	0.14
12.68	415.74	2-4-3-021:052	515	1	7/29/2002	1035038	SFD	TENORIO,TORI	R-1 Residential	R-1	U	0.14
23.89	783.36	2-4-3-020:115	515	1	7/26/2002	1035013	SFD	SOMERA,JIMMY	R-1 Residential	R-1	U	0.19
16.63	545.14	2-4-3-021:025	515	1	7/25/2002	1035007	SFD	AGUILAR MOLINA,ALBERTO	R-1 Residential	R-1	U	0.15
7.04	230.77	2-4-3-021:054	515	1	7/2/2002	1034952	SFD	LUU,JAMES	R-1 Residential	R-1	U	0.18
22.25	729.56	2-4-3-020:035	515	1	6/27/2002	1034944	SFD	TILLMAN,MARK & CLAIRE	R-1 Residential	R-1	U	0.18
10.23	335.38	2-4-3-021:084	515	1	6/26/2002	1034943	SFD	QUISUMBING,BENJAMIN	R-1 Residential	R-1	U	0.19
78.74	2,581.53	2-4-3-020:045	515	1	6/25/2002	1034935	SFD	JAYSWAL,B K	R-1 Residential	R-1	U	0.14
4.90	160.55	2-4-3-020:113	515	1	6/14/2002	1034915	SFD	SANTOS,RONALDO	R-1 Residential	R-1	U	0.17
13.04	427.62	2-4-3-021:107	515	1	5/8/2002	1034789	SFD	WONG,LOKE	R-1 Residential	R-1	U	0.17
6.20	203.42	2-4-3-021:051	515	1	5/3/2002	1034774	SFD	SANTOS,BALTAZAR	R-1 Residential	R-1	U	0.15
6.23	204.15	2-4-3-021:050	515	1	2/25/2002	1034659	SFD	SIMPSON,MELISSA	R-1 Residential	R-1	U	0.19
17.14	562.08	2-4-3-021:043	515	1	2/21/2002	103						

16.95	555.68	2-4-3-020:121	515	1	10/22/2001	1034416	SFD	LEE,MEGHAN	R-1 Residential	R-1	U	0.17
24.13	791.17	2-4-3-020:060	515	1	10/19/2001	1034415	SFD	KASPER,CHRISTOPHER	R-1 Residential	R-1	U	0.17
15.16	497.16	2-4-3-005:094	515	1	10/17/2001	1034412	SFD	SCHLOSS,NATHANIEL	R-1 Residential	R-1	U	0.17
19.90	652.38	2-4-3-005:095	515	1	10/11/2001	1034389	SFD	GRANT,REBECCA	R-1 Residential	R-1	U	0.14
14.34	470.25	2-4-3-020:029	515	1	10/8/2001	1034383	SFD	BLAYER,JEFF	R-1 Residential	R-1	U	0.19
4.68	153.50	2-4-3-021:012	515	1	10/2/2001	1034371	SFD	TURALVA-ALBANO,JACQUELINE	R-1 Residential	R-1	U	0.15
13.35	437.76	2-4-3-005:096	515	1	9/11/2001	1034322	SFD	MITTENDORF,CONSTANTINE	R-1 Residential	R-1	U	0.16
1.91	62.51	2-4-3-020:028	515	1	8/30/2001	1034281	SFD	SOTO,PAMELA R	R-1 Residential	R-1	U	0.16
18.25	598.39	2-4-3-020:056	515	1	7/30/2001	1034247	SFD	FULLER,STEVE	R-1 Residential	R-1	U	0.17
12.33	404.40	2-4-3-021:114	515	1	7/18/2001	1034234	SFD	PRICE,ROBERT	R-1 Residential	R-1	U	0.16
7.93	259.89	2-4-3-020:077	515	1	7/11/2001	1034171	SFD	MANTHE,JUDITH B	R-1 Residential	R-1	U	0.15
23.50	770.38	2-4-3-021:081	515	1	6/21/2001	1034110	SFD	SNEED,PHILIP	R-1 Residential	R-1	U	0.18
10.82	354.86	2-4-3-021:086	515	1	6/14/2001	1034105	SFD	WALTER,ELIZABETH	R-1 Residential	R-1	U	0.18
5.69	186.45	2-4-3-020:027	515	1	6/1/2001	1034097	SFD	YAMAT,RAY	R-1 Residential	R-1	U	0.16
32.22	1,056.45	2-4-3-020:063	515	1	5/11/2001	1034076	SFD	WILLI,DAVID	R-1 Residential	R-1	U	0.17
7.08	232.13	2-4-3-021:049	515	1	4/6/2001	1033956	SFD	ARNOLD,CHRISTOPHER	R-1 Residential	R-1	U	0.15
12.85	421.20	2-4-3-020:057	515	1	4/4/2001	1033954	SFD	WILLIAMS,BRENT & LONNI	R-1 Residential	R-1	U	0.17
5.16	169.30	2-4-3-020:095	515	1	3/9/2001	1033890	SFD	TENISON,ROBERT	R-1 Residential	R-1	U	0.15
5.59	183.39	2-4-3-020:085	515	1	1/26/2001	1033812	SFD	NEWELL,ROBERT S	R-1 Residential	R-1	U	0.15
12.40	406.61	2-4-3-020:042	515	1	1/8/2001	1033776	SFD	WYSE,MICHELE	R-1 Residential	R-1	U	0.15
8.97	293.93	2-4-3-021:008	515	1	12/29/2000	1033767	SFD	ECKLAND,JOHN	R-1 Residential	R-1	U	0.15
12.18	399.40	2-4-3-021:008	515	1	12/13/2000	1033753	SFD	BANDY,RICHARD	R-1 Residential	R-1	U	13.04
6.85	224.51	2-4-3-021:040	515	1	12/13/2000	1033755	SFD	GERBIG,DONALD R	R-1 Residential	R-1	U	0.15
5.69	186.39	2-4-3-020:081	515	1	11/28/2000	1033732	SFD	MANTHE,JUDITH B	R-1 Residential	R-1	U	0.21
11.93	391.01	2-4-3-020:103	515	1	11/3/2000	1033707	SFD	ARMSTRONG,SABINE	R-1 Residential	R-1	U	0.16
8.39	274.92	2-4-3-021:093	515	1	10/2/2000	1033587	SFD	GAZMEN,RUDY G	R-1 Residential	R-1	U	0.18
14.06	460.82	2-4-3-021:104	515	1	9/22/2000	1033576	SFD	LASERNA,JOANNE	R-1 Residential	R-1	U	0.14
25.40	832.76	2-4-3-020:082	515	1	9/20/2000	1033574	SFD	RAYA JR,PHILIP A	R-1 Residential	R-1	U	0.21
33.66	1,103.58	2-4-3-021:004	515	1	9/20/2000	1033572	SFD	BURGY,JAMES CLAYTON	R-1 Residential	R-1	U	0.15
16.80	550.71	2-4-3-021:071	515	1	9/20/2000	1033573	SFD	KNAPP,STEVEN	R-1 Residential	R-1	U	0.18
16.42	538.22	2-4-3-021:035	515	1	9/18/2000	1033567	SFD	RICE,AMY E	R-1 Residential	R-1	U	0.19
12.90	422.95	2-4-3-021:037	515	1	9/18/2000	1033569	SFD	FORSYTH, WILLIAM	R-1 Residential	R-1	U	0.14
3.77	123.74	2-4-3-021:115	515	1	9/18/2000	1033568	SFD	OHLER,LEE	R-1 Residential	R-1	U	0.16
0.00	0.00	2-4-3-020:088	515	1	8/24/2000	1033541	SFD	BLIND,ESTHER	R-1 Residential	R-1	U	0.16
24.69	809.64	2-4-3-020:091	515	1	8/16/2000	1033529	SFD	PROCELL,BARRETT	R-1 Residential	R-1	U	0.18
10.20	334.45	2-4-3-021:042	515	1	8/2/2000	1033501	SFD	MACLELLAN,MAUREEN	R-1 Residential	R-1	U	0.15
2.29	75.22	2-4-3-020:116	515	1	7/19/2000	1033471	SFD	DAVY,KAREN	R-1 Residential	R-1	U	0.14
19.64	644.04	2-4-3-021:034	515	1	6/27/2000	1033417	SFD	QUAM,RODNEY	R-1 Residential	R-1	U	0.19
20.51	672.35	2-4-3-021:103	515	1	6/27/2000	1033427	SFD	BLOOM,CINDY	R-1 Residential	R-1	U	0.14
9.09	298.03	2-4-3-021:102	515	1	6/9/2000	1033385	SFD	MACHERNIS,EDWARD & MELISSA	R-1 Residential	R-1	U	0.14
21.24	696.31	2-4-3-020:012	515	1	5/17/2000	1033356	SFD	LIN,JAMIE	R-1 Residential	R-1	U	0.15
13.05	427.76	2-4-3-020:089	515	1	4/28/2000	1033326	SFD	Long,Veronica	R-1 Residential	R-1	U	0.18
2.76	90.63	2-4-3-021:110	515	1	4/26/2000	1033313	SFD	OAVANCENS,KAREN	R-1 Residential	R-1	U	0.15
4.75	155.87	2-4-3-020:006	515	1	3/14/2000	1033225	SFD	PRICE,ANTHONY A	R-1 Residential	R-1	U	0.19
1.94	63.72	2-4-3-021:073	515	1	12/27/1999	1033071	SFD	BEHL,CLIFF	R-1 Residential	R-1	U	0.17
7.22	236.64	2-4-3-021:075	515	1	12/27/1999	1033070	SFD	HOLMER,JANA	R-1 Residential	R-1	U	0.15
19.95	653.96	2-4-3-021:076	515	1	12/27/1999	1033072	SFD	KADOTANI-CORNETT,LEAH	R-1 Residential	R-1	U	0.17
9.57	313.85	2-4-3-020:021	515	1	12/21/1999	1033053	SFD	WARD,PAMELA	R-1 Residential	R-1	U	0.15
17.70	580.27	2-4-3-021:014	515	1	12/21/1999	1033054	SFD	PANTE,LARRY	R-1 Residential	R-1	U	0.15
7.63	250.19	2-4-3-021:105	515	1	10/7/1999	1032957	SFD	YEANY,MICHAEL	R-1 Residential	R-1	U	0.17
6.24	204.67	2-4-3-020:010	515	1	9/9/1999	1032919	SFD	MAHAN,JOHN	R-1 Residential	R-1	U	0.15
11.97	392.32	2-4-3-021:072	515	1	9/3/1999	1032914	SFD	KEESLER,MICHAEL S & THERESE H	R-1 Residential	R-1	U	0.18
14.72	482.51	2-4-3-021:074	515	1	9/3/1999	1032915	SFD	HENGESH,JAMES	R-1 Residential	R-1	U	0.15
4.00	131.15	2-4-3-021:078	515	1	9/3/1999	1032916	SFD	BURDEN,OLIVER	R-1 Residential	R-1	U	0.17
11.90	390.03	2-4-3-020:011	515	1	8/30/1999	1032909	SFD	MORGAN,STAN	R-1 Residential	R-1	U	0.15
14.51	475.82	2-4-3-021:036	515	1	8/3/1999	1032885	SFD	SCHMUHL,GORDON	R-1 Residential	R-1	U	0.26
12.58	412.57	2-4-3-021:100	515	1	6/16/1999	1032818	SFD	BOWERMAN,EDWIN	R-1 Residential	R-1	U	0.14
28.54	935.63	2-4-3-020:017	515	1	4/30/1999	1009701	SFD	JACKSON,MARK B	R-1 Residential	R-1	U	0.15
8.24	270.16	2-4-3-021:044	515	1	4/7/1999	1026896	SFD	GLEESON,TIMOTHY	R-1 Residential	R-1	U	0.15
7.88	258.44	2-4-3-021:005	515	1	4/5/1999	1011050	SFD	SHIRLEY,STACY	R-1 Residential	R-1	U	0.15
11.74	384.84	2-4-3-021:098	515	1	4/5/1999	1026897	SFD	MILLER,LAURIE	R-1 Residential	R-1	U	0.14
11.68	383.09	2-4-3-020:016	515	1	2/17/1999	1009711	SFD	VALLOW,LAURENCE	R-1 Residential	R-1	U	0.15
20.39	668.52	2-4-3-020:067	515	1	2/3/1999	1009689	SFD	CARTS,LISA	R-1 Residential	R-1	U	0.17
8.36	274.23	2-4-3-020:083	515	1	1/29/1999	1024445	SFD	WIKLE,SANDRA	R-1 Residential	R-1	U	0.17
13.43	440.27	2-4-3-020:018	515	1	1/21/1999	1009712	SFD	CONNEL CARR,JEANNINE F	R-1 Residential	R-1	U	0.15
11.37	372.87	2-4-3-020:020	515	1	1/15/1999	1009713	SFD	BELLIN,JULIAN	R-1 Residential	R-1	U	0.15
14.23	466.56	2-4-3-021:039	515	1	1/15/1999	1029462	SFD	BRODSKY,JENNIFER	R-1 Residential	R-1	U	0.15
9.01	295.36	2-4-3-020:009	515	1	1/14/1999	1009708	SFD	LIGHTFOOT,KELLY	R-1 Residential	R-1	U	0.16
20.66	677.24	2-4-3-020:014	515	1	11/27/1998	1009702	SFD	DEMPSEY,KEVIN & TINA	R-1 Residential	R-1	U	0.15
8.34	273.50	2-4-3-021:001	515	1	11/27/1998	1009706	SFD	HEATH,ROBERT	R-1 Residential	R-1	U	0.15
14.68	481.17	2-4-3-021:006	515	1	11/27/1998	1009705	SFD	SARRACINO,KEVIN	R-1 Residential	R-1	U	0.15
12.43	407.68	2-4-3-020:080	515	1	11/9/1998	1024446	SFD	PERRY,LOYD	R-1 Residential	R-1	U	0.16
12.65	414.67	2-4-3-020:013	515	1	10/30/1998	1009703	SFD	KOHLER,SHELBI	R-1 Residential	R-1	U	0.15
16.52	541.69	2-4-3-021:009	515	1	4/16/1998	1009715	SFD	AGUIRRE, AURORA	R-1 Residential	R-1	U	0.20
11.22	367.90	2-4-3-020:072	515	1	4/2/1998	1009271	SFD	Weigel,Wes	R-1 Residential	R-1	U	0.15
3.80	124.70	2-4-3-019:009	515	1	8/8/1996	1024781	SFD	SALAS,KAREN	R-1 Residential	R-1	U	0.07
5.53	181.17	2-4-3-019:015	515	1	8/8/1996	1024770	SFD	SOWARDS,CONSTANCE R	R-1 Residential	R-1	U	0.09
5.09	166.97	2-4-3-019:016	515	1	8/8/1996	1024767	SFD	VINCENT,STEPHANIE	R-1 Residential	R-1	U	0.13
9.85	322.90	2-4-3-019:019	515	1	8/8/1996	1024765	SFD	REID,DARLENE	R-1 Residential	R-1	U	0.13
2.68	87.73	2-4-3-019:021	515	1	8/8/1996	1024771	SFD	KUIPER,ALAN	R-1 Residential	R-1	U	0.09
12.75	418.17	2-4-3-019:017	515	1	7/29/1996	1024787	SFD	MARSHALL,TINA	R-1 Residential	R-1	U	0.13
8.82	289.10	2-4-3-019:014	515	1	7/25/1996	1024773	SFD	WALKER,LOIS	R-1 Residential	R-1	U	0.09
8.53	279.56	2-4-3-019:022	515	1	7/11/1996	1024772	SFD	KEYHANI,KOUROSH	R-1 Residential	R-1	U	0.09
3.17	103.85	2-4-3-019:023	515	1	7/11/1996	1024777	SFD	ROMINE,CHRISTOPHER	R-1 Residential	R-1	U	0.09
2.43	79.56	2-4-3-019:011	515	1	7/3/1996	1024782	SFD	DALBEC,MEGAN	R-1 Residential	R-1	U	0.10
6.00	196.64	2-4-3-019:024	515	1	7/3/1996	1024778	SFD	ALEXANDER,JOHN & SONYA	R-1 Residential	R-1	U	0.09
6.79	222.76	2-4-3-019:026	515	1	7/3/1996	1024784	SFD	BURKE,JACKIE	R-1 Residential	R-1	U	0.10
3.60	118.01	2-4-3-019:012	515	1	6/27/1996	1024779	SFD	TOSCANO,ANTONINO	R-1 Residential	R-1	U	0.09
7.45	244.29	2-4-3-019:013	515	1	6/27/1996	1024776	SFD	ALANA,TONI	R-1 Residential	R-1	U	0.09
4.97	162.79	2-4-3-019:025	515	1	6/27/1996	1024783	SFD	COURTER,SKYLER	R-1 Residential	R-1	U	0.10
6.18	202.57	2-4-3-019:007	515	1	6/5/1996	1024775	SFD	DRAZKOWSKI,TONIA	R-1 Residential	R-1	U	0.07
4.84	158.66	2-4-3-019:008	515	1	6/5/1996	1024780	SFD	WEED,LESLIE	R-1 Residential	R-1	U	0.07
7.14	234.07	2-4-3-019:003	515	1	5/24/1996	1024764	SFD	MASON-RODRIGUES,MAKAYLA K	R-1 Residential	R-1	U	0.07
2.86	93.69	2-4-3-019:004	515	1	5/24/1996	1024768	SFD	HAYES,HEATHER	R-1 Residential	R-1	U	0.07
28.92	948.20	2-4-3-019:005	515	1	5/24/1996	1024769	SFD					

10.25	335.98	2-4-3-009-095	513	1	10/24/2003	1036377	SFD	HIDALGO,ELADIO	R-1 Residential	R-1	U	0.16
8.70	285.25	2-4-3-009-057	513	1	8/25/2003	1036281	SFD	TAIRA,ANDY	R-1 Residential	R-1	U	0.15
4.64	152.19	2-4-3-009-075	513	1	8/13/2003	1036268	SFD	OLSON,DEANE	R-1 Residential	R-1	U	0.17
6.18	202.68	2-4-3-009-064	513	1	7/23/2003	1036179	SFD	TEJERO,NERIO	R-1 Residential	R-1	U	0.15
4.81	157.84	2-4-3-009-062	513	1	6/17/2003	1035858	SFD	COOGAN,BRIAN	R-1 Residential	R-1	U	0.15
0.00	0.00	2-4-3-009-053	513	1	6/4/2003	1035844	SFD	PHAM,PETER	R-1 Residential	R-1	U	0.15
10.13	332.24	2-4-3-009-091	513	1	5/23/2003	1035832	SFD	CORNIEL,CLIFFORD	R-1 Residential	R-1	U	0.14
11.99	393.11	2-4-3-009-080	513	1	5/22/2003	1035831	SFD	PACLEB,JUPITER	R-1 Residential	R-1	U	0.15
10.72	351.53	2-4-3-009-088	513	1	5/14/2003	1035823	SFD	VILLALUZ,JULITA	R-1 Residential	R-1	U	0.17
8.84	289.70	2-4-3-009-089	513	1	5/7/2003	1035809	SFD	INES,BENMAR	R-1 Residential	R-1	U	0.17
24.34	798.06	2-4-3-009-085	513	1	4/30/2003	1035803	SFD	PINERA,MARTALINA V	R-1 Residential	R-1	U	0.15
13.08	428.91	2-4-3-009-096	513	1	4/28/2003	1035799	SFD	HIDALGO,FELICIANO	R-1 Residential	R-1	U	0.18
10.05	329.54	2-4-3-009-056	513	1	4/15/2003	1035784	SFD	BUMANGLAG,PATROCINIO	R-1 Residential	R-1	U	0.15
21.81	714.92	2-4-3-009-083	513	1	3/24/2003	1035755	SFD	MAKEKAU,KENNEDY	R-1 Residential	R-1	U	0.15
14.75	483.63	2-4-3-009-060	513	1	3/20/2003	1035726	SFD	HONGO,HARUYASU	R-1 Residential	R-1	U	0.16
13.40	439.18	2-4-3-009-052	513	1	2/20/2003	1035573	SFD	COWAN,LANCE	R-1 Residential	R-1	U	0.15
12.11	397.05	2-4-3-009-087	513	1	2/19/2003	1035571	SFD	SLOBODNIJAK,SUSAN	R-1 Residential	R-1	U	0.15
7.06	231.56	2-4-3-009-092	513	1	2/3/2003	1035560	SFD	OPPENHEIMER,HANK	R-1 Residential	R-1	U	0.16
13.47	441.64	2-4-3-009-093	513	1	1/31/2003	1035557	SFD	FITKIN,BRAD	R-1 Residential	R-1	U	0.18
8.88	291.20	2-4-3-009-090	513	1	1/30/2003	1035556	SFD	MEIDELL,JOHN SCOTT	R-1 Residential	R-1	U	0.14
19.79	648.69	2-4-3-020-112	511	1	7/26/2002	1035019	SFD	LE,LOI	R-1 Residential	R-1	U	0.15
6.63	217.24	2-4-3-021-010	511	1	6/17/1999	1032823	SFD	ESCOBAR,KATHLEEN	R-1 Residential	R-1	U	0.20
49.31	1,616.83	2-0-0-000-000	515	1	11/1/1985	1017027	CGOVT	WASTEWATER RECLAMATION DIVISION	R-2 Residential	R-2	U	0.40
1.04	34.13	2-4-3-003-043	515	1	10/15/2007	1039537	SFD	HALE WAI VENTURES LLC	R-2 Residential	R-2	U	0.27
0.00	0.00	2-4-3-003-043	515	1	10/12/2007	1039536	SFD	HALE WAI VENTURES LLC	R-2 Residential	R-2	U	0.61
27.45	900.14	2-4-3-019-039	515	1	8/15/2006	1038247	SFD	CHUMLEY,SISIRI	R-2 Residential	R-2	U	0.18
0.00	0.00	2-4-3-003-025	515	1	5/6/2004	1037986	SFD	GOSHI,MICHAEL	R-2 Residential	R-2	U	0.65
20.18	661.72	2-4-3-003-025	515	1	5/6/2004	1037985	SFD	GOSHI,MICHAEL	R-2 Residential	R-2	U	0.65
24.36	798.72	2-4-3-003-025	515	1	5/6/2004	1037981	SFD	LOWE,DELBERT	R-2 Residential	R-2	U	0.65
35.40	1,160.55	2-4-3-003-025	515	1	5/6/2004	1037984	SFD	ZIMMERMANN,EVA	R-2 Residential	R-2	U	0.65
37.74	1,237.51	2-4-3-003-025	515	1	5/6/2004	1037979	SFD	KUBIAK,WALTER	R-2 Residential	R-2	U	0.18
74.65	2,447.49	2-4-3-003-025	515	1	5/6/2004	1037987	SFD	KILI NAHE ASSN	R-2 Residential	R-2	U	0.13
13.60	445.74	2-4-3-003-126	515	1	5/6/2004	1036657	SFD	NIKBAKSH-TALI,FARIBORZ	R-2 Residential	R-2	U	0.21
7.41	243.01	2-4-3-003-128	515	1	5/6/2004	1037980	SFD	BLEECHER,BARRY	R-2 Residential	R-2	U	0.18
29.46	965.96	2-4-3-003-130	515	1	5/6/2004	1037982	SFD	MOELLER,DEREK	R-2 Residential	R-2	U	0.65
20.18	661.61	2-4-3-003-131	515	1	5/6/2004	1037983	SFD	TESCHLER,JAHNDAVID	R-2 Residential	R-2	U	0.65
12.77	418.74	2-4-3-005-056	515	1	1/5/2001	1033770	SFD	ARELLANO,RICHARD E	R-2 Residential	R-2	U	0.18
5.97	195.85	2-4-3-016-026	515	1	12/22/1998	1017009	SFD	YAMAMOTO,RANDY	R-2 Residential	R-2	U	0.45
11.68	382.92	2-4-3-016-089	515	1	12/22/1998	1017010	SFD	YAMAMOTO,DALE	R-2 Residential	R-2	U	0.45
9.22	302.16	2-4-3-016-002	515	2	6/8/1998	1008442	SFD	YAMAMOTO,BARBARA	R-2 Residential	R-2	U	0.21
17.40	570.55	2-4-3-019-042	515	1	1/15/1998	1005401	SFD	FORSYTH,WILLIAM	R-2 Residential	R-2	U	0.18
9.70	318.09	2-4-3-005-064	515	2	6/20/1997	1017108	SFD	SIGBAND,MITCHELL	R-2 Residential	R-2	U	0.17
5.44	178.36	2-4-3-016-081	515	2	11/25/1996	1008436	SFD	KAHALEKULU,KEVIN	R-2 Residential	R-2	U	0.05
7.77	254.75	2-4-3-016-004	515	2	11/20/1996	1008433	SFD	CRAIN,MICHAEL	R-2 Residential	R-2	U	0.27
13.79	452.16	2-4-3-016-082	515	2	3/6/1996	1008439	SFD	SALVADOR,JAIME A	R-2 Residential	R-2	U	0.05
10.01	328.09	2-4-3-016-066	515	1	1/23/1996	1008451	SFD	LARSON,ROLAND	R-2 Residential	R-2	U	0.23
4.17	136.80	2-4-3-005-059	515	1	1/11/1996	1014458	SFD	HALE KAHANA ASSN	R-2 Residential	R-2	U	0.20
11.62	381.01	2-4-3-016-083	515	2	1/9/1996	1008441	SFD	O'HANLON,DAN	R-2 Residential	R-2	U	0.25
12.25	401.69	2-4-3-002-083	515	1	9/19/1995	1007568	SFD	COSTE,ELISABETH	R-2 Residential	R-2	U	0.57
16.02	525.38	2-4-3-016-028	515	1	4/27/1995	1008446	SFD	LENTA,ROXANA E	R-2 Residential	R-2	U	0.23
6.55	214.67	2-4-3-016-078	515	2	3/2/1995	1008431	SFD	KEIDAN,KEN	R-2 Residential	R-2	U	0.27
17.11	560.98	2-4-3-003-045	515	2	12/20/1994	1007651	SFD	FLINT,ROBERT	R-2 Residential	R-2	U	0.08
18.21	596.91	2-4-3-005-053	515	2	9/29/1994	1014450	SFD	TEFFT,MARILYN A	R-2 Residential	R-2	U	0.18
5.19	170.19	2-4-3-016-080	515	1	8/9/1994	1008417	SFD	RAMELB,EMERSON	R-2 Residential	R-2	U	0.24
14.62	479.21	2-4-3-016-008	515	1	8/2/1994	1008453	SFD	CRAIG,TRACY	R-2 Residential	R-2	U	0.22
7.35	240.98	2-4-3-016-079-0000	515	1	7/6/1994	1020878	SFD	NUNEZ,STEPHANIE	R-2 Residential	R-2	U	0.18
10.17	333.55	2-4-3-005-057	515	1	4/28/1994	1014455	SFD	JONES,JESSICA	R-2 Residential	R-2	U	0.22
11.62	380.93	2-4-3-002-037	515	1	1/13/1994	1017155	SFD	REIMANN,EDWARD K	R-2 Residential	R-2	U	0.54
20.50	672.16	2-4-3-008-078	515	2	8/27/1993	1019708	SFD	RENTZER,HOWARD	R-2 Residential	R-2	U	0.20
13.56	444.45	2-4-3-005-066	515	1	8/3/1993	1017106	SFD	PASTRANA,CRAIG	R-2 Residential	R-2	U	0.17
20.05	657.21	2-4-3-005-058	515	1	5/13/1993	1014456	SFD	TERVOLA,CINDY	R-2 Residential	R-2	U	0.00
18.18	595.98	2-4-3-003-118	515	2	4/6/1993	1017139	SFD	LACOUNT,FRED	R-2 Residential	R-2	U	0.08
23.52	771.26	2-4-3-003-119	515	2	4/6/1993	1017138	SFD	SULLIVAN,GRANT H	R-2 Residential	R-2	U	0.08
28.29	927.51	2-4-3-003-045	515	2	12/4/1992	1017137	SFD	OMELCHENKO,YURI	R-2 Residential	R-2	U	0.08
2.93	96.07	2-4-3-007-017	515	1	11/10/1992	1026034	SFD	THE MANA HOUSE LLC	R-2 Residential	R-2	U	0.15
22.01	721.67	2-4-3-016-074	515	1	8/18/1992	1008440	SFD	SCHLEA,BRENT	R-2 Residential	R-2	U	0.16
9.83	322.13	2-4-3-016-075	515	2	8/11/1992	1008437	SFD	VANQUAETHEM,AMY	R-2 Residential	R-2	U	0.18
16.19	530.96	2-4-3-016-077	515	2	5/2/1992	1008434	SFD	ELKIND,PAMELA	R-2 Residential	R-2	U	0.17
31.51	1,033.03	2-4-3-007-013	515	1	3/19/1992	1026027	SFD	FORTUN,TRYG	R-2 Residential	R-2	U	0.18
9.19	301.26	2-4-3-005-013	515	1	9/11/1991	1017109	SFD	WEST MAUI PROPERTIES	R-2 Residential	R-2	U	0.18
22.58	740.27	2-4-3-005-060	515	1	4/22/1991	1014453	SFD	HORNUNG,ZELIDRAG	R-2 Residential	R-2	U	0.19
13.38	438.61	2-4-3-019-038	515	1	1/31/1991	1005406	SFD	MARKOTAY,DENISE	R-2 Residential	R-2	U	0.19
8.85	290.19	2-4-3-005-065	515	2	11/1/1990	1017107	SFD	MCCLEAN,MAGGIE	R-2 Residential	R-2	U	0.17
10.37	340.08	2-4-3-016-003	515	2	7/19/1990	1008435	SFD	WELSH,ROBIN	R-2 Residential	R-2	U	0.05
9.21	302.08	2-4-3-016-005	515	2	7/18/1990	1008430	SFD	MOLINA,MARCELO B	R-2 Residential	R-2	U	0.27
13.63	446.94	2-4-3-016-067	515	1	5/17/1990	1008415	SFD	CARROLL,SCOTT	R-2 Residential	R-2	U	0.24
27.57	903.77	2-4-3-005-012	515	1	3/22/1990	1017114	SFD	MODUGNO,PAT	R-2 Residential	R-2	U	0.18
3.89	127.65	2-4-3-002-037	515	1	11/1/1989	1017154	SFD	DAPITAN,PUNAHELE	R-2 Residential	R-2	U	0.54
5.45	178.52	2-4-3-007-004	515	1	1/26/1989	1007643	SFD	CIABURRI,MARK	R-2 Residential	R-2	U	0.17
14.15	463.96	2-4-3-003-039	515	1	12/5/1988	1007638	SFD	FRASER,IAN	R-2 Residential	R-2	U	0.29
6.05	198.28	2-4-3-003-026	515	2	8/24/1987	1017127	SFD	SADLER,STEVE J	R-2 Residential	R-2	U	0.19
24.07	789.23	2-4-3-016-019	515	1	10/6/1986	1020872	SFD	GUTHRIE,THOMAS S.	R-2 Residential	R-2	U	0.17
12.29	402.95	2-4-3-003-082	515	1	8/5/1986	1001682	SFD	WHITE,TIANA	R-2 Residential	R-2	U	0.00
4.69	153.83	2-4-3-003-098	515	1	6/7/1986	1007654	SFD	ERCK,JOHN	R-2 Residential	R-2	U	0.14
6.46	211.89	2-4-3-003-113	515	1	1/29/1986	1017126	SFD	SADLER,STEVEN	R-2 Residential	R-2	U	0.14
9.26	303.74	2-4-3-003-112	515	1	12/19/1985	1007629	SFD	VIERRA,PAULINE A	R-2 Residential	R-2	U	0.17
5.17	169.43	2-4-3-003-088	515	1	11/26/1985	1017132	SFD	BLEARS,LAURA LEE	R-2 Residential	R-2	U	0.29
38.87	1,274.29	2-4-3-007-011	515	1	8/13/1985	1007650	SFD	TBBK LLC	R-2 Residential	R-2	U	0.49
5.19	170.03	2-4-3-003-047	515	1	12/18/1984	1007653	SFD	WEBER,ANITA M	R-2 Residential	R-2	U	0.00
6.62	217.13	2-4-3-003-081	515	1	7/30/1984	1001683	SFD	SAVANNA ENTERPRISES LLC	R-2 Residential	R-2	U	0.23
5.11	167.60	2-4-3-016-046	515	1	12/27/1983	1008462	SFD	MORRIS,MICHAEL G	R-2 Residential	R-2	U	0.17
12.62	413.91	2-0-0-000-000	515	2	5/9/1983	1017125	SFD	QUIGLEY,GLENN J	R-2 Residential	R-2	U	0.08
1.65	54.18	2-4-3-003-099	515	1	12/15/1978	1017140	SFD	FLAHERTY,BRIAN	R-2 Residential	R-2	U	0.32
77.83	2,551.67	2-4-3-002-081	515	1	11/1/1978	1017151	SFD	PALJ,JOHN K	R-2 Residential	R-2	U	0.57
12.40	406.50	2-4-3-003-028	515	1	11/							

2.66	87.05	2-4-3-016-011	515	2	5/3/1977	1008416	SFD	BURRIESCI,MATTHEW	R-2 Residential	R-2	U	0.05
11.65	381.89	2-4-3-016-012	515	2	5/3/1977	1008452	SFD	LOYD,ROBERT M	R-2 Residential	R-2	U	0.05
3.80	124.43	2-4-3-016-018	515	1	12/16/1975	1020877	SFD	SALTER,BRAD	R-2 Residential	R-2	U	0.17
12.76	418.33	2-4-3-003-084	515	1	5/31/1974	1017129	SFD	CARLSMITH,KEVIN M	R-2 Residential	R-2	U	0.20
8.88	291.15	2-4-3-016-026	515	1	9/28/1971	1017143	SFD	YAMAMOTO,SATOKI	R-2 Residential	R-2	U	0.45
29.22	957.90	2-4-3-007-016	515	1	9/9/1971	1026033	SFD	HOLE,ROBERT	R-2 Residential	R-2	U	0.21
18.09	592.98	2-4-3-016-020	515	1	6/28/1971	1020871	SFD	HUERTA,PAMELA	R-2 Residential	R-2	U	0.20
24.94	817.81	2-4-3-007-015	515	1	3/3/1971	1026026	SFD	ENGEL,WILLIAM	R-2 Residential	R-2	U	0.21
11.18	366.39	2-4-3-003-036	515	1	10/24/1961	1007634	SFD	CHUNG,CHEA	R-2 Residential	R-2	U	0.00
18.39	602.84	2-4-3-007-014	515	1	7/26/1960	1026030	SFD	AOKI,FLORENCE	R-2 Residential	R-2	U	0.18
33.60	1,101.78	2-4-3-003-087	515	1	12/4/1959	1017141	SFD	CATHEY,SIMEON	R-2 Residential	R-2	U	0.32
8.59	281.64	2-4-3-008-056	513	1	2/24/2005	1037345	SFD	CAMPOS,FRANCISCO I	R-2 Residential	R-2	U	0.19
15.98	524.02	2-4-3-008-038	513	1	4/26/2000	1033315	SFD	MONTOYA,BEN	R-2 Residential	R-2	U	0.19
15.86	519.84	2-4-3-009-014	513	1	8/9/1995	1017084	SFD	MIHLBAUER,JAMIE P	R-2 Residential	R-2	U	0.17
12.76	418.39	2-4-3-009-012	513	2	3/4/1994	1017083	SFD	PRINCE,DAWN E	R-2 Residential	R-2	U	0.17
9.16	300.44	2-4-3-009-023	513	1	1/10/1991	1019713	SFD	LEE,JAMES C	R-2 Residential	R-2	U	0.01
19.85	650.77	2-4-3-008-009	513	2	1/8/1991	1019676	SFD	DORAN,RYLAND	R-2 Residential	R-2	U	0.00
19.17	628.58	2-4-3-009-033	513	1	1/8/1991	1029291	SFD	DANKWORTH,JIM	R-2 Residential	R-2	U	0.23
21.47	703.91	2-4-3-008-011	513	2	9/7/1990	1019679	SFD	GUTH,JOSHUA	R-2 Residential	R-2	U	0.17
24.65	808.06	2-4-3-019-041	513	1	8/24/1990	1017113	SFD	FERNANDEZ,JENNIFER M	R-2 Residential	R-2	U	0.18
43.62	1,430.05	2-4-3-009-036	513	1	5/7/1990	1000732	SFD	BAGG,WILLIAM R	R-2 Residential	R-2	U	0.22
17.74	581.58	2-4-3-009-037	513	1	8/1/1989	1000734	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.22
33.29	1,091.61	2-4-3-019-043	513	2	7/26/1989	1005405	SFD	GIBSON-MORROW,ELIZ	R-2 Residential	R-2	U	0.18
19.80	649.15	2-4-3-019-040	513	1	5/23/1989	1005408	SFD	ELDER-DARKE FAMILY TRUST	R-2 Residential	R-2	U	0.18
14.54	476.61	2-4-3-008-017	513	1	5/18/1989	1019675	SFD	JOSE,LILY	R-2 Residential	R-2	U	0.17
9.14	299.81	2-0-0-000-000	513	1	5/12/1989	1017077	SFD	LOW,TINA	R-2 Residential	R-2	U	0.21
19.37	634.97	2-4-3-009-035	513	1	1/13/1989	1000730	SFD	MACINNES,MDM HYOU	R-2 Residential	R-2	U	1.12
20.53	673.09	2-4-3-008-031	513	2	6/13/1988	1019705	SFD	MAHUNA,BRIAN & DEBORAH	R-2 Residential	R-2	U	0.18
17.70	580.19	2-4-3-009-034	513	1	6/6/1988	1000729	SFD	KAPALANI EST DEV CO	R-2 Residential	R-2	U	0.19
25.71	842.92	2-4-3-008-026	513	1	6/5/1987	1019698	SFD	MULHOLLAND,JIM	R-2 Residential	R-2	U	0.18
2.80	91.83	2-4-3-008-057	513	1	2/11/1987	1029787	SFD	BUTTELING,ROY	R-2 Residential	R-2	U	0.19
19.03	623.99	2-4-3-008-058	513	1	2/11/1987	1029784	SFD	HIRATA,NEIL	R-2 Residential	R-2	U	0.19
7.54	247.35	2-4-3-008-048	513	1	12/2/1986	1024375	SFD	PENDERGAST,HOLLY & MIKE	R-2 Residential	R-2	U	0.18
28.53	935.49	2-4-3-009-022	513	2	9/17/1986	1019711	SFD	STOCKHAM,JOHN	R-2 Residential	R-2	U	0.01
42.24	1,384.92	2-4-3-008-065	513	2	6/18/1986	1005722	SFD	ANGEL,JOHN	R-2 Residential	R-2	U	0.00
28.98	950.03	2-4-3-009-021	513	2	6/18/1986	1019710	SFD	KATZ,JEFFREY	R-2 Residential	R-2	U	0.20
13.66	447.81	2-4-3-008-051	513	1	12/19/1985	1024376	SFD	VISITACION,ARLYN V	R-2 Residential	R-2	U	0.18
13.38	438.77	2-4-3-008-041	513	1	11/19/1985	1000720	SFD	SANDI,STEVEN J	R-2 Residential	R-2	U	0.21
31.86	1,044.67	2-4-3-008-010	513	1	5/2/1985	1019677	SFD	ANGIOLETTI,TARA	R-2 Residential	R-2	U	0.00
12.97	425.33	2-4-3-008-059	513	1	4/25/1985	1029783	SFD	TUMPA,VIRGILIO A JR	R-2 Residential	R-2	U	0.20
20.42	669.37	2-4-3-008-050	513	1	2/28/1985	1024371	SFD	MORIKAWA,JANE	R-2 Residential	R-2	U	0.18
17.94	588.31	2-4-3-008-077	513	2	10/10/1984	1001165	SFD	FERDOWSKI,SEAN	R-2 Residential	R-2	U	0.20
30.56	1,001.86	2-4-3-009-046	513	1	6/14/1984	1022868	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.18
21.22	695.87	2-4-3-009-027	513	1	5/31/1984	1000726	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.21
17.58	576.23	2-4-3-009-029	513	1	5/31/1984	1000728	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	1.12
18.08	592.76	2-4-3-009-047	513	1	5/18/1984	1022866	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.18
20.17	661.39	2-4-3-009-045	513	1	5/17/1984	1022870	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.18
31.20	1,022.87	2-4-3-008-039	513	1	5/8/1984	1000723	SFD	ALLEN,WILLIAM P	R-2 Residential	R-2	U	0.00
16.11	528.33	2-4-3-008-037	513	1	4/5/1984	1019683	SFD	TWITCHELL,SARAH	R-2 Residential	R-2	U	0.19
0.90	29.64	2-4-3-009-030	513	1	2/1/1984	1029290	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.20
21.48	704.15	2-4-3-009-026	513	1	1/31/1984	1000735	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.21
29.40	963.80	2-4-3-009-028	513	1	1/31/1984	1000727	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	1.12
24.06	788.72	2-4-3-009-031	513	1	1/31/1984	1029289	SFD	KAPALANI ESTATES LOT OWNERS	R-2 Residential	R-2	U	0.22
20.11	659.23	2-4-3-008-064	513	1	1/30/1984	1005723	SFD	BROWN,BARRY L	R-2 Residential	R-2	U	0.00
6.34	207.70	2-4-3-008-070	513	1	1/9/1984	1023598	SFD	STERLING,SCOTT & KATHI	R-2 Residential	R-2	U	0.00
10.70	350.77	2-4-3-009-013	513	1	1/4/1984	1019715	SFD	SCHENK,DOUG	R-2 Residential	R-2	U	0.18
9.09	298.17	2-4-3-009-011	513	2	12/20/1983	1019712	SFD	CROSS,KATHARINE	R-2 Residential	R-2	U	0.18
12.27	402.13	2-4-3-008-049	513	1	11/29/1983	1024373	SFD	STOOPS,DAVID	R-2 Residential	R-2	U	0.18
11.11	364.26	2-4-3-008-040	513	1	10/31/1983	1000725	SFD	JOY,GINA	R-2 Residential	R-2	U	0.21
18.93	620.60	2-4-3-009-017	513	1	10/13/1983	1019717	SFD	KUDLICH,ROBERT A	R-2 Residential	R-2	U	0.20
23.74	778.42	2-4-3-016-007	513	1	10/11/1983	1008459	SFD	BRINK,STEVE	R-2 Residential	R-2	U	0.17
18.01	590.41	2-4-3-008-069	513	1	9/21/1983	1019702	SFD	LOPER,GLOREEN	R-2 Residential	R-2	U	0.18
3.62	118.72	2-4-3-008-029	513	1	9/19/1983	1019701	SFD	VENUS,DEBBIE	R-2 Residential	R-2	U	0.18
17.26	566.01	2-4-3-016-013	511	1	2/3/1994	1020880	SFD	PROBST,ALEC	R-2 Residential	R-2	U	0.18
6.61	216.67	2-4-3-016-047	511	1	12/17/1986	1008464	SFD	MORROW,BRANDON	R-2 Residential	R-2	U	0.17
8.20	268.93	2-4-3-016-049	511	1	7/3/1986	1008457	SFD	YOUNG,GREGORY	R-2 Residential	R-2	U	0.17
13.25	434.34	2-4-3-016-048	511	1	10/3/1984	1008456	SFD	PAUL,SEEMA	R-2 Residential	R-2	U	0.17
100.96	3,310.30	2-4-4-002-039	513	1	4/12/2001	1033966	COM	HAWAIIAN CEMENT	R-3 Residential	R-3	A	0.00
29.03	951.64	2-4-4-001-016-0000	513	1	2/7/1991	1016979	COM	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
28.42	931.89	2-4-4-001-016-0000	513	1	10/2/1990	1016987	COM	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
108.56	3,559.29	2-4-4-002-033	513	1	7/31/1980	1029373	COM	WASTEWATER RECLAMATION DIVISION	R-3 Residential	R-3	A	0.26
23.82	780.90	2-4-4-001-016-0000	513	8	2/7/1991	1016973	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
28.56	936.45	2-4-4-001-016-0000	513	8	2/7/1991	1016971	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
28.77	943.22	2-4-4-001-016-0000	513	8	2/7/1991	1016968	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
31.70	1,039.43	2-4-4-001-016-0000	513	8	2/7/1991	1016970	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
31.92	1,046.69	2-4-4-001-016-0000	513	8	2/7/1991	1016969	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
55.85	1,831.09	2-4-4-001-016-0000	513	8	2/7/1991	1016974	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
19.18	628.93	2-4-4-001-016-0000	513	8	10/4/1990	1016985	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
24.43	801.04	2-4-4-001-016-0000	513	8	10/4/1990	1016962	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
21.08	690.98	2-4-4-001-016-0000	513	8	10/3/1990	1016983	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
29.78	976.42	2-4-4-001-016-0000	513	8	10/2/1990	1016984	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	A	10.33
38.36	1,257.62	2-4-3-051-068	515	1	7/15/1999	1032864	SFD	MOFFETT,WILLIAM B	R-3 Residential	R-3	A	0.24
108.74	3,565.25	2-4-3-019-049	513	1	4/9/2008	1039905	SFD	KAHANA NUI LLC	R-3 Residential	R-3	A	0.29
7.03	66.48	2-0-0-000-000	513	1	3/10/1986	1017036	CGOVT	WASTEWATER RECLAMATION DIVISION	R-3 Residential	R-3	U	0.24
40.15	1,316.26	2-0-0-000-000	515	1	11/1/1978	1005412	COM	HALE MALIA ASSN	R-3 Residential	R-3	U	0.31
84.38	2,766.53	2-4-3-015-057	513	1	8/11/1993	1008478	COM	HUI ROAD TRUST	R-3 Residential	R-3	U	0.13
5.36	175.68	2-4-4-001-016-0000	513	1	12/17/1990	1016988	COM	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	U	10.33
488.83	16,027.19	2-4-4-001-016-0000	513	1	9/12/1990	1007676	COM	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	U	10.33
26.46	867.43	2-4-4-001-016-0000	513	1	8/3/1990	1016986	COM	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	U	10.33
56.95	1,867.08	2-0-0-000-000	513	1	3/10/1986	1017032	COM	WASTEWATER RECLAMATION DIVISION	R-3 Residential	R-3	U	0.90
17.12	561.28	2-4-4-001-016-0000	513	8	12/17/1990	1016975	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	U	10.33
19.01	623.28	2-4-4-001-016-0000	513	8	12/17/1990	1016963	LO-RISE	HONOKOWAI KAUHALE LLC	R-3 Residential	R-3	U	10.33
21.61	708.50	2-4-4-001-016-0000	513	8	12/17/1990							

5.03	164.75	2-4-3-015-032	515	2	5/22/1996	1009697	SFD	WORCESTER,WENDY	R-3 Residential	R-3	U	0.00
37.28	1,222.32	2-4-3-015-041	515	1	9/8/1994	1017037	SFD	POWELL,DEBRA	R-3 Residential	R-3	U	0.38
56.51	1,852.87	2-4-3-003-091	515	1	12/3/1979	1005417	SFD	MACLAREN,GRANT	R-3 Residential	R-3	U	0.55
64.09	2,101.45	2-4-3-015-012	515	1	7/19/1979	1017119	SFD	O'LEARY,KATHERINE	R-3 Residential	R-3	U	0.34
106.93	3,505.82	2-4-3-003-092	515	1	11/1/1978	1005415	SFD	BOZICH,JIM	R-3 Residential	R-3	U	0.24
16.80	550.96	2-4-3-003-093	515	1	11/1/1978	1005414	SFD	20 HUI ROAD LLC	R-3 Residential	R-3	U	0.25
20.66	677.51	2-4-3-003-094	515	1	11/1/1978	1005413	SFD	SIMON,KENT D	R-3 Residential	R-3	U	0.55
55.36	1,814.95	2-4-3-003-095	515	1	11/1/1978	1005411	SFD	WALLASCH,CHARLES	R-3 Residential	R-3	U	0.30
38.29	1,255.33	2-4-3-003-096	515	1	11/1/1978	1005416	SFD	LUCAS,MARCIA	R-3 Residential	R-3	U	0.29
400.07	13,116.94	2-0-0-000-000	515	8	3/9/1965	1001681	SFD	ALAELOA MGT ASSN	R-3 Residential	R-3	U	9.43
0.08	2.70	2-4-3-015-040-0000	513	1	12/28/2018	0	SFD	JELMSA,PAULA ANN L	R-3 Residential	R-3	U	0.00
35.13	1,151.80	2-4-3-015-041	513	1	9/24/2004	1037020	SFD	QUINE,JAMES	R-3 Residential	R-3	U	0.24
14.32	469.43	2-4-3-015-059	513	1	9/1/2004	1036865	SFD	CABANILLA,NATHAN K	R-3 Residential	R-3	U	0.38
37.13	1,217.30	2-4-3-015-004	513	1	6/13/2003	1035852	SFD	HUI ROAD TRUST	R-3 Residential	R-3	U	0.13
20.71	679.13	2-4-3-015-010	513	1	10/3/2001	1034374	SFD	HOY,MICHA	R-3 Residential	R-3	U	0.32
58.17	1,907.21	2-4-3-015-011	513	1	10/3/2001	1034375	SFD	COOPER,KIMBERLY L	R-3 Residential	R-3	U	0.32
10.81	354.48	2-4-3-022-021	513	1	5/7/1999	1017001	SFD	KAUHALE MAHINAHINA HOMEOWNERS AS	R-3 Residential	R-3	U	0.00
11.49	376.64	2-4-3-006-052	513	1	9/30/1997	1017076	SFD	MEDEIROS,JANSEN	R-3 Residential	R-3	U	0.41
8.63	282.81	2-4-3-009-006	513	2	2/20/1996	1017082	SFD	LEVY,ESTHER	R-3 Residential	R-3	U	0.95
25.85	847.43	2-4-3-015-007	513	1	7/9/1992	1008481	SFD	BURRIESCI,MATTHEW	R-3 Residential	R-3	U	0.00
33.83	1,109.10	2-4-3-015-044	513	1	9/19/1990	1008477	SFD	ZIMMERMAN,ALAN	R-3 Residential	R-3	U	0.02
8.53	279.59	2-4-3-006-051	513	2	3/12/1990	1017075	SFD	RUIDAS,RHONDA SC	R-3 Residential	R-3	U	0.41
9.16	300.27	2-4-3-015-027-0000	513	1	1/9/1990	1009700	SFD	TAYLOR,PAUL	R-3 Residential	R-3	U	0.23
34.04	1,115.96	2-4-3-015-025	513	1	3/9/1987	1027463	SFD	GORDON,GEORGE	R-3 Residential	R-3	U	0.26
34.36	1,126.64	2-4-3-015-029	513	1	1/8/1987	1009691	SFD	SILVERADO	R-3 Residential	R-3	U	0.23
19.86	651.17	2-4-3-015-006	513	1	12/30/1986	1008475	SFD	ZOTTI,KEN	R-3 Residential	R-3	U	0.22
13.17	431.78	2-4-3-015-039	513	2	9/29/1986	1017115	SFD	CASCO,CLIFFANE	R-3 Residential	R-3	U	0.24
22.75	745.74	2-4-3-015-013	513	2	8/1/1986	1017118	SFD	ALULI AND SONS INC	R-3 Residential	R-3	U	0.39
40.14	1,315.96	2-4-3-015-031	513	1	8/1/1986	1009695	SFD	WATSON,GEORGE	R-3 Residential	R-3	U	0.23
11.22	368.01	2-4-3-015-050	513	1	5/30/1986	1017116	SFD	LUM LUNG,JACINTH	R-3 Residential	R-3	U	0.23
18.64	610.98	2-4-3-015-051	513	1	5/23/1986	1017117	SFD	CASCO,CLIFFANE	R-3 Residential	R-3	U	0.24
23.19	760.30	2-4-3-015-038	513	2	9/9/1985	1009698	SFD	KAEO,JAMIE LUM LUNG	R-3 Residential	R-3	U	0.23
20.66	677.30	2-0-0-000-000	513	1	2/6/1984	1027462	SFD	SCHWEITZER,MATT	R-3 Residential	R-3	U	0.26
49.45	1,621.20	2-4-3-015-030	513	1	11/5/1981	1009693	SFD	NEWMAN,VINCE	R-3 Residential	R-3	U	0.23
7.87	258.17	2-4-3-015-023	513	1	6/5/1981	1027464	SFD	FITZGERALD,LEIGH	R-3 Residential	R-3	U	0.26
27.19	891.58	2-4-3-006-043	513	2	11/1/1978	1017071	SFD	3806 PROPERTIES LLC	R-3 Residential	R-3	U	1.01
4.60	150.79	2-4-3-006-053	513	1	11/1/1978	1007598	SFD	CANOYER,LENA	R-3 Residential	R-3	U	0.30
8.14	266.80	2-4-3-006-054	513	1	11/1/1978	1017072	SFD	MIYAMOTO,TOSHIO	R-3 Residential	R-3	U	0.30
5.09	166.75	2-4-3-008-083	513	1	11/1/1978	1007599	SFD	NAKAMURA,YOSHIHARU	R-3 Residential	R-3	U	0.43
25.68	842.10	2-4-3-008-084	513	1	11/1/1978	1007600	SFD	ULI,DEBRA	R-3 Residential	R-3	U	0.35
36.55	1,198.31	2-4-3-015-015	513	1	11/1/1978	1007620	SFD	PITZER,DOUG & KELLY	R-3 Residential	R-3	U	0.98
63.30	2,075.46	2-4-3-015-016	513	4	11/1/1978	1007619	SFD	SHARPE,EMMA K	R-3 Residential	R-3	U	0.26
17.29	566.99	2-4-3-015-018	513	1	11/1/1978	1027459	SFD	SEEBART,JOHN	R-3 Residential	R-3	U	0.26
26.50	868.93	2-4-3-015-026	513	2	11/1/1978	1027461	SFD	BEKEART,BASTEL RF	R-3 Residential	R-3	U	0.26
10.23	335.27	2-4-3-015-036	513	1	11/1/1978	1007618	SFD	ROBINSON,JAMES C	R-3 Residential	R-3	U	2.35
11.91	390.36	2-4-3-015-047	513	1	11/1/1978	1007625	SFD	NALIEHA,NATALIE M	R-3 Residential	R-3	U	0.32
17.42	571.04	2-4-4-001-024	513	1	11/1/1978	1011592	SFD	CAMPANANO,SHIRLEY	R-3 Residential	R-3	U	0.15
19.38	635.55	2-4-4-001-081	513	2	11/1/1978	1011589	SFD	KAWABATA,TSUTOMU	R-3 Residential	R-3	U	0.32
12.98	425.44	2-4-4-001-083	513	2	11/1/1978	1011595	SFD	TUNGPAALAN,BEN P	R-3 Residential	R-3	U	0.17
19.62	643.42	2-4-4-001-083	513	2	11/1/1978	1011594	SFD	TUNGPAALAN,BEN P	R-3 Residential	R-3	U	0.00
26.17	857.92	2-4-4-001-085	513	1	11/1/1978	1011593	SFD	GAMA,ARCELIA	R-3 Residential	R-3	U	0.15
13.11	429.75	2-4-4-001-086	513	1	11/1/1978	1011586	SFD	SIMON,RODRIGO B	R-3 Residential	R-3	U	0.15
12.61	413.33	2-4-4-001-092	513	1	11/1/1978	1011591	SFD	HUFALAR,DAVID	R-3 Residential	R-3	U	0.15
118.08	3,871.39	2-4-3-015-008	513	1	7/7/1978	1007622	SFD	HUNT-SCOTT,SHANNON	R-3 Residential	R-3	U	0.51
8.63	282.98	2-0-0-000-000	513	2	12/2/1977	1007623	SFD	LUM,ALLYN	R-3 Residential	R-3	U	0.32
17.07	559.78	2-4-3-015-045	513	1	10/29/1976	1008476	SFD	CARR,JAMES E	R-3 Residential	R-3	U	0.00
10.89	357.10	2-4-4-001-088	513	2	9/25/1973	1011597	SFD	CHUNG,LILLIAN	R-3 Residential	R-3	U	0.30
12.33	404.18	2-4-3-015-037	513	1	3/9/1966	1007616	SFD	TAKAHASHI,ROBERT	R-3 Residential	R-3	U	0.24
19.99	655.44	2-4-4-001-080	513	2	10/23/1961	1011587	SFD	BROWN,PAUL D	R-3 Residential	R-3	U	0.30
16.18	530.36	2-0-0-000-000	513	1	7/31/1980	1029374	COM	WASTEWATER RECLAMATION DIVISION	Road	ROAD	A	0.00
2.51	82.43	2-4-3-010-016	515	1	1/6/2006	1037971	SFD	PALMER,JEREMY M	Road	ROAD	A	1.48
120.19	3,940.74	2-4-3-010-028	515	1	10/2/2002	1035248	SFD	HEHEMANN,TIMOTHY J	Road	ROAD	A	1.48
20.26	664.29	2-4-3-021-027	515	1	2/11/2002	1034641	SFD	DAMMERS,ELLEN	Road	ROAD	A	13.04
47.48	1,556.75	2-4-3-005-091	515	1	10/16/2001	1034397	SFD	NIELSON,RUSSELL	Road	ROAD	A	0.51
11.91	390.38	2-4-3-005-070	515	1	8/21/2001	1034264	SFD	FUKUDA,CASEY	Road	ROAD	A	0.51
72.21	2,367.38	2-4-3-010-028	515	1	8/8/2001	1034252	SFD	HEHEMANN,TIMOTHY J	Road	ROAD	A	1.48
9.93	325.44	2-4-3-010-030	515	1	6/5/1995	1006738	SFD	DELANEY,BILL & KAREN	Road	ROAD	A	1.48
59.03	1,935.46	2-4-3-010-016	515	1	5/18/1995	1001566	SFD	PALMER,JEREMY M	Road	ROAD	A	1.48
3.89	127.60	2-4-3-017-037	515	1	8/14/1986	1008727	SFD	JACKSON,MELYROS	Road	ROAD	A	0.00
22.02	721.97	2-4-3-017-007	515	1	9/27/1985	1002379	SFD	WRIGHT,J H	Road	ROAD	A	0.00
43.69	1,432.60	2-4-3-010-022	513	1	7/3/2006	1038205	SFD	PACIFIC COFFEE INC	Road	ROAD	A	1.48
3.48	114.15	2-4-3-010-021	513	1	6/21/2001	1034113	SFD	CORTEZ,DOMINGO	Road	ROAD	A	2.01
4.99	163.72	2-4-3-005-036	513	1	5/14/1997	1017111	SFD	ZIELINSKI,KEITH	Road	ROAD	A	0.14
43.89	1,439.10	2-4-3-010-023	513	1	5/23/1996	1001571	SFD	FISCHER,GEORGE	Road	ROAD	A	1.48
141.28	4,632.10	2-4-3-010-031	513	1	12/29/1994	1006739	SFD	LAHAINA CHRISTIAN FELLOWSHIP	Road	ROAD	A	1.48
18.29	599.59	2-4-3-010-020	513	1	12/16/1994	1001570	SFD	JOSE MAGSAYO,NANCY	Road	ROAD	A	1.48
0.00	0.00	2-4-5-011-010	511	1	2/9/2006	1037991	SFD	-	Road	ROAD	A	0.00
2.42	79.34	2-4-3-018-041	515	1	7/12/2000	1033460	CGOVT	DEPT OF PARKS & RECREATION	Road	ROAD	U	0.00
2.67	87.62	2-4-3-018-041	515	1	7/12/2000	1033459	CGOVT	DEPT OF PARKS & RECREATION	Road	ROAD	U	0.00
2.23	73.20	2-0-0-000-000	515	1	11/1/1985	1017031	CGOVT	WASTEWATER RECLAMATION DIVISION	Road	ROAD	U	5.58
11.33	371.39	2-4-3-003-105	515	1	4/10/1991	1017122	COM	LOFT,WYATT T	Road	ROAD	U	0.00
149.79	4,911.09	2-0-0-000-000	513	1	10/23/1987	1017050	COM	AAAAA RENT-A-SPACE	Road	ROAD	U	0.00
36.55	1,198.20	2-0-0-000-000	513	1	2/13/1987	1032551	COM	DEPT OF TRANS	Road	ROAD	U	0.00
36.47	1,195.87	2-4-3-001-031	513	1	2/13/1987	1032552	COM	DEPT OF TRANS	Road	ROAD	U	0.00
3.14	102.84	2-4-4-001-060	513	1	6/27/1985	1017042	COM	KAANAPALI MARKETPLACE LLC	Road	ROAD	U	0.00
472.67	15,497.43	2-4-3-010-002	513	1	4/28/1982	1017094	COM	SANDS OF KAHANA AOAO	Road	ROAD	U	0.00
633.24	20,761.97	2-4-3-010-002	513	1	4/28/1982	1017095	COM	SANDS OF KAHANA AOAO	Road	ROAD	U	0.00
595.43	19,522.19	2-4-3-010-002	513	1	4/27/1982	1017092	COM	SANDS OF KAHANA AOAO	Road	ROAD	U	0.00
611.75	20,057.38	2-4-3-010-002	513	1	4/27/1982	1017093	COM	SANDS OF KAHANA AOAO	Road	ROAD	U	0.00
0.08	2.70	2-0-0-000-000	513	1	11/1/1978	1009690	COM	HAWAIIAN TELCOM	Road	ROAD	U	0.00
3.08	100.96	2-0-0-000-000	513	1	11/1/1978	1007720	COM	AMERON INT'L CORP	Road	ROAD	U	1.50
81.49	2,671.89	2-0-0-000-000	513	1	9/7/1976	1007573	COM	BELLO,ED	Road	ROAD	U	0.00
53.91	1,767.54	2-4-3-009-052	513	1	5/11/1994	1026797	CPARK	DEPT OF PARKS & RECREATION	Road	ROAD	U	0.00
3,610.29	118,370.03	2-4-4-014-004	515	1	8/10/2004	1036812	HOTEL	WESTIN KAAANAPALI OCEAN RESORT VILLAS	Road	ROAD	U	11.47
3,155.62	103,462.90	2-4-4-										

290.51	9,524.81	2-4-3-003-015	515	41	11/1/1978	1009676	LO-RISE	KAHANA SUNSET AOAO	Road	ROAD	U	0.00
218.12	7,151.58	2-0-0-000-000	515	40	5/11/1978	1007565	LO-RISE	NAPII POINT II AOAO	Road	ROAD	U	0.00
244.07	8,002.30	2-4-3-002-055-0000	515	15	9/27/1977	1008471	LO-RISE	NAPII SUNSET	Road	ROAD	U	0.00
245.50	8,049.21	2-0-0-000-000	515	41	6/14/1977	1008438	LO-RISE	SPARKS,ADAM	Road	ROAD	U	0.14
90.04	2,952.10	2-4-3-003-020	515	9	2/5/1975	1007632	LO-RISE	MALUNA KAI ESTATES	Road	ROAD	U	0.00
171.40	5,619.62	2-4-3-002-048-0000	515	36	12/2/1969	1023473	LO-RISE	NAPII SURF BCH RES	Road	ROAD	U	1.09
495.17	16,235.19	2-4-3-006-004	513	159	8/9/1995	1017062	LO-RISE	AOAO MAUI LANI TERRACES	Road	ROAD	U	0.00
0.00	0.00	2-4-3-006-002	513	32	10/1/1990	1017059	LO-RISE	-	Road	ROAD	U	0.00
32.61	1,069.02	2-4-3-005-014	513	1	2/20/1986	1017104	LO-RISE	FLYING RABBIT APTS	Road	ROAD	U	0.00
359.84	11,798.17	2-4-3-010-011	513	106	3/17/1981	1017097	LO-RISE	KAHANA MANOR AOAO	Road	ROAD	U	0.00
109.27	3,582.54	2-0-0-000-000	513	30	11/1/1978	1017065	LO-RISE	LEINANI CONDO AOAO	Road	ROAD	U	0.00
131.99	4,327.68	2-0-0-000-000	513	42	11/1/1978	1007607	LO-RISE	KAHANA BEACH RESORT AOAO	Road	ROAD	U	0.00
139.83	4,584.73	2-0-0-000-000	513	1	11/1/1978	1009564	LO-RISE	MAUI KAI	Road	ROAD	U	0.70
337.24	11,057.19	2-0-0-000-000	513	110	11/1/1978	1007603	LO-RISE	THE KULEANA	Road	ROAD	U	0.00
801.88	26,291.15	2-4-4-001-051	513	112	11/1/1978	1007576	LO-RISE	PAKI MAUI AOAO (2140)	Road	ROAD	U	0.00
5.42	177.73	2-4-3-003-044	515	1	11/1/1978	1001680	RELIGION	KAHANA DOOR OF FAITH CHURCH	Road	ROAD	U	0.00
5.34	174.95	2-4-4-001-032-0000	513	1	11/1/1978	1007723	RELIGION	LAHUIOKALANI CHURCH	Road	ROAD	U	0.00
1.75	57.43	2-4-3-003-140-0000	515	1	5/5/2008	1039934	SFD	DOFA,CHARLES E	Road	ROAD	U	0.00
5.12	167.76	2-4-3-016-037	515	1	4/3/2008	1039902	SFD	BARNETT,ROCKY	Road	ROAD	U	0.00
5.04	165.27	2-4-3-003-040	515	1	6/14/2006	1038156	SFD	RUSSELL,MICHAEL	Road	ROAD	U	0.00
24.19	793.22	2-4-3-020-053	515	1	8/3/2005	1037669	SFD	DIAZ,SAMAN	Road	ROAD	U	13.04
15.20	498.42	2-4-3-020-071	515	1	2/16/2005	1037303	SFD	DRIVER,TEX & BONNIE	Road	ROAD	U	13.04
14.86	487.27	2-4-3-020-051	515	1	1/3/2005	1037173	SFD	KENCE,JOSEPH	Road	ROAD	U	13.04
17.53	574.81	2-4-3-018-026	515	1	10/25/2004	1037058	SFD	BALMORES,MARIETTA	Road	ROAD	U	0.00
18.94	620.93	2-4-3-005-088	515	1	7/20/2004	1036797	SFD	WILLARD,ROBERT	Road	ROAD	U	0.51
0.26	8.55	2-4-3-021-095	515	1	1/9/2004	1036523	SFD	SWANSON,JEFF	Road	ROAD	U	13.04
11.44	375.16	2-4-3-021-090	515	1	1/6/2004	1036519	SFD	DION,DENNIS	Road	ROAD	U	13.04
0.00	0.00	2-4-3-020-024	515	1	11/17/2003	1036426	SFD	TEAM MEACHAM LLC	Road	ROAD	U	13.04
16.13	528.80	2-4-3-020-046	515	1	11/6/2003	1036414	SFD	ARANGO,ERIC & CYNTHIA	Road	ROAD	U	13.04
12.98	425.57	2-4-3-020-070	515	1	10/22/2003	1036373	SFD	SILVESTRE,JOE	Road	ROAD	U	13.04
10.80	354.10	2-4-3-020-047	515	1	8/7/2003	1036239	SFD	MALCZYNSKI,ROBERT S	Road	ROAD	U	13.04
22.99	753.69	2-4-3-020-036	515	1	7/3/2003	1036073	SFD	CIZEWSKI,LESLIE	Road	ROAD	U	13.04
22.92	751.39	2-4-3-020-052	515	1	6/12/2003	1035850	SFD	SCHIAVONE,GIOVANNI	Road	ROAD	U	13.04
9.76	319.89	2-4-3-021-111	515	1	6/6/2003	1035847	SFD	ORTIZ,ART	Road	ROAD	U	0.16
9.38	307.40	2-4-3-021-003	515	1	6/3/2003	1035841	SFD	MAGALLON,ANTONIO	Road	ROAD	U	13.04
13.85	454.10	2-4-3-020-109	515	1	5/2/2003	1035805	SFD	FORRESTER,JOHN	Road	ROAD	U	13.04
159.53	5,230.33	2-4-3-015-054	515	1	4/2/2003	1035770	SFD	ISLAND GIRL HOLDINGS LLC	Road	ROAD	U	0.00
16.36	536.23	2-4-3-021-113	515	1	3/19/2003	1035702	SFD	BEVAN,CHAD	Road	ROAD	U	13.04
16.02	525.11	2-4-3-020-023	515	1	3/18/2003	1035689	SFD	KELLY'S GLASS & MIRROR CO INC	Road	ROAD	U	13.04
7.11	233.22	2-4-3-020-090	515	1	1/7/2003	1035435	SFD	SPERLING,RICK	Road	ROAD	U	13.04
8.06	264.21	2-4-3-005-087	515	1	9/11/2002	1035219	SFD	PATEL,SNEHAL	Road	ROAD	U	0.51
11.11	364.26	2-4-3-021-068	515	1	9/3/2002	1035202	SFD	BENELIEZER,HENRI	Road	ROAD	U	13.04
11.28	369.75	2-4-3-020-118	515	1	8/21/2002	1035192	SFD	BRUNOLD,JILL	Road	ROAD	U	13.04
11.69	383.22	2-4-3-021-029	515	1	8/2/2002	1035171	SFD	KHADAR,ELINA	Road	ROAD	U	13.04
10.83	355.00	2-4-3-020-108	515	1	7/29/2002	1035037	SFD	MARTINEZ,DAVID	Road	ROAD	U	13.04
26.00	852.54	2-4-3-005-083	515	1	7/26/2002	1035012	SFD	CONSTANZO,STEPHANIE	Road	ROAD	U	0.51
10.88	356.61	2-4-3-020-048	515	1	7/26/2002	1035017	SFD	DESOTO,MIRANDA	Road	ROAD	U	13.04
26.52	869.51	2-4-3-020-065	515	1	7/26/2002	1035018	SFD	HASSAN,MOUSA	Road	ROAD	U	13.04
10.02	328.58	2-4-3-020-026	515	1	6/13/2002	1034898	SFD	HALLET,LINDSAY	Road	ROAD	U	13.04
15.44	506.09	2-4-3-021-066	515	1	3/22/2002	1034697	SFD	NABETA,REIKO	Road	ROAD	U	13.04
12.34	404.48	2-4-3-021-070	515	1	3/7/2002	1034684	SFD	BERTRAM,JENNIFER	Road	ROAD	U	13.04
18.44	604.73	2-4-3-021-033	515	1	2/22/2002	1034658	SFD	EICHHORST,BRADLEY	Road	ROAD	U	0.51
13.91	456.17	2-4-3-005-085	515	1	2/6/2002	1034631	SFD	TROUT,SLATER	Road	ROAD	U	13.04
19.19	629.13	2-4-3-021-106	515	1	1/28/2002	1034614	SFD	LIEDERMAN,WALTER	Road	ROAD	U	13.04
23.43	768.03	2-4-3-021-112	515	1	1/8/2002	1034581	SFD	STORER,CHRISTOPHER & DESTINY	Road	ROAD	U	0.16
19.15	627.70	2-4-3-003-020	515	1	1/4/2002	1034575	SFD	LEE,CHU YONG	Road	ROAD	U	0.00
11.00	360.60	2-4-3-021-069	515	1	11/1/2001	1034465	SFD	ZERBE,BENJAMIN	Road	ROAD	U	13.04
12.67	415.27	2-4-3-021-116	515	1	10/25/2001	1034448	SFD	CHRISTOFFERSON,DIANE	Road	ROAD	U	13.04
8.51	279.07	2-4-3-005-084	515	1	10/17/2001	1034411	SFD	LALIBERTE,SHANNON	Road	ROAD	U	0.51
19.18	628.80	2-4-3-005-089	515	1	10/16/2001	1034396	SFD	QUAM,CIARA	Road	ROAD	U	0.51
16.26	533.09	2-4-3-005-098	515	1	10/16/2001	1034405	SFD	WOLFORD,JASON	Road	ROAD	U	0.51
5.28	173.20	2-4-3-020-032	515	1	10/11/2001	1034390	SFD	BARRON-LUKE,CAROLINE	Road	ROAD	U	13.04
31.10	1,019.56	2-4-3-005-086	515	1	10/9/2001	1034385	SFD	RYAN,RICK & LINDA	Road	ROAD	U	0.51
12.18	399.32	2-4-3-020-049	515	1	9/20/2001	1034350	SFD	ST JOHN-PARISIAN,CHELA	Road	ROAD	U	13.04
11.90	390.03	2-4-3-020-073	515	1	7/19/2001	1034238	SFD	PACE,DOUGLAS A & JUDITH A	Road	ROAD	U	13.04
21.90	717.92	2-4-3-020-002	515	1	6/22/2001	1034116	SFD	STANISLAW,ALEXANDER	Road	ROAD	U	13.04
15.08	494.32	2-4-3-020-050	515	1	6/21/2001	1034111	SFD	HAASE,GREG	Road	ROAD	U	13.04
9.86	323.33	2-4-3-021-085	515	1	6/18/2001	1034108	SFD	TROUT,CHRISTOPHER	Road	ROAD	U	13.04
23.69	776.83	2-4-3-020-005	515	1	5/9/2001	1034075	SFD	JARVIS,MARSHA D	Road	ROAD	U	13.04
10.95	358.88	2-4-3-020-079	515	1	4/27/2001	1034061	SFD	MOYLAN,CHRISTOPHER	Road	ROAD	U	0.18
20.09	658.83	2-4-3-021-031	515	1	4/27/2001	1034062	SFD	LOPEZ,KIM M	Road	ROAD	U	13.04
12.34	404.59	2-4-3-020-044	515	1	4/25/2001	1034048	SFD	SCALA,ALBERT	Road	ROAD	U	13.04
7.20	235.93	2-4-3-021-058	515	1	4/25/2001	1034046	SFD	CRAIG,ROSOLINE L	Road	ROAD	U	13.04
9.21	301.83	2-4-3-020-034	515	1	4/4/2001	1033953	SFD	TAYLOR,COREY	Road	ROAD	U	13.04
6.58	215.82	2-4-3-020-041	515	1	3/30/2001	1033947	SFD	JOHNSON II,DENTON A	Road	ROAD	U	13.04
29.07	953.03	2-4-3-020-105	515	1	3/29/2001	1033930	SFD	LIN,YUEH	Road	ROAD	U	13.04
10.79	353.88	2-4-3-021-094	515	1	3/12/2001	1033895	SFD	CALEDONIA,JOY	Road	ROAD	U	13.04
9.82	321.80	2-4-3-020-104	515	1	3/1/2001	1033865	SFD	THOMAS,AARON	Road	ROAD	U	13.04
10.36	339.75	2-4-3-020-004	515	1	1/25/2001	1033795	SFD	WURTS,BARBARA	Road	ROAD	U	13.04
12.28	402.51	2-4-3-020-025	515	1	1/8/2001	1033775	SFD	PAYNTER,JAY & SUSAN	Road	ROAD	U	13.04
19.49	639.13	2-4-3-021-091	515	1	1/3/2001	1033768	SFD	ROSS,ALEXANDER	Road	ROAD	U	13.04
16.47	539.92	2-4-3-020-038	515	1	12/19/2000	1033759	SFD	HABERSTOCK,KENT C	Road	ROAD	U	13.04
5.00	163.85	2-4-3-021-089	515	1	12/12/2000	1033751	SFD	BECK,BRANDON & ANNIE	Road	ROAD	U	13.04
40.07	1,313.91	2-4-3-020-110	515	1	11/3/2000	1033708	SFD	CORONADO,RICHARD	Road	ROAD	U	13.04
5.29	173.50	2-4-3-019-034	515	1	9/22/2000	1033575	SFD	KANE,WILLIAM	Road	ROAD	U	0.00
17.01	557.73	2-4-3-020-001	515	1	8/9/2000	1033519	SFD	OFFERGELD,DMITRI	Road	ROAD	U	13.04
7.52	246.50	2-4-3-020-003	515	1	8/9/2000	1033518	SFD	BOZLEE,DEBBIE	Road	ROAD	U	13.04
5.33	174.86	2-4-3-021-092	515	1	8/9/2000	1033517	SFD	SARGENT,SHIRLEY	Road	ROAD	U	13.04
23.44	768.61	2-4-3-021-099	515	1	8/4/2000	1033506	SFD	CORTESI,ROBERT & TERESA	Road	ROAD	U	13.04
16.98	556.72	2-4-3-020-106	515	1	8/3/2000	1033505	SFD	MURRAY,TAMARA & MICHAEL	Road	ROAD	U	13.04
16.42	538.31	2-4-3-021-101	515	1	5/9/2000	1033330	SFD	HARVEY,CLARE	Road	ROAD	U	13.04
12.19	399.70	2-4-3-020-066	515	1	4/26/2000	1033314	SFD	HUNTLEY,DAVID J	Road	ROAD	U	13.04
35.23	1,155.11	2-4-3-020-007	515	1	3/14/2000	1033227	SFD	BARNETT,ROCKY	Road	ROAD	U	13.04
55.60	1,822.84	2-4-3-015-055	515	1	3/2/2000	1033211	SFD	BEACH 14 LLC	Road	ROAD	U	0.00
10.49	343.91	2-4-3-021-077	515	1	12/27/1999	1033069	SFD	WEAVER,TERRY	Road	ROAD</		

11.78	386.09	2-4-3-021-028	515	1	10/20/1998	1009716	SFD	WINN, COOPER	Road	ROAD	U	13.04
11.59	380.14	2-4-3-020-008	515	1	9/30/1998	1009704	SFD	NEWTON, JEFFREY	Road	ROAD	U	13.04
2.62	86.04	2-4-3-020-022	515	1	9/11/1998	1009717	SFD	FAVORS, EDDIE/JACKIE	Road	ROAD	U	13.04
17.28	566.50	2-4-3-021-062	515	1	9/10/1998	1004747	SFD	JARMAN, RICHARD & LINDA	Road	ROAD	U	13.04
11.08	363.39	2-4-3-020-078	515	1	9/4/1998	1009710	SFD	BISHOP, DENNIS	Road	ROAD	U	13.04
25.54	837.43	2-4-3-002-085	515	1	10/15/1997	1017149	SFD	BACALSO, JOHN/JANET	Road	ROAD	U	0.00
20.56	674.02	2-4-3-005-055	515	1	10/3/1997	1014454	SFD	DEROSE, LISA	Road	ROAD	U	0.00
22.72	744.75	2-4-3-002-082	515	1	1/2/1997	1017029	SFD	NISHIJIMA, KENT	Road	ROAD	U	0.00
2.50	81.91	2-4-3-019-020	515	1	8/27/1996	1024766	SFD	SUMIMOTO, JODY	Road	ROAD	U	0.00
5.17	169.48	2-4-3-019-018	515	1	8/8/1996	1024763	SFD	LUCKEY, RYAN	Road	ROAD	U	0.00
3.43	112.32	2-4-3-019-006	515	1	6/5/1996	1024774	SFD	MCCABE, JEFF	Road	ROAD	U	0.00
8.16	267.40	2-4-3-019-010	515	1	6/5/1996	1024785	SFD	DAHL, ZACHARY	Road	ROAD	U	0.00
8.63	282.95	2-0-0-000-000	515	1	5/24/1996	1024789	SFD	KAHANANUI VILLAGE	Road	ROAD	U	0.00
4.84	158.69	2-4-3-019-001	515	1	5/24/1996	1024786	SFD	BURKE, TIM	Road	ROAD	U	0.00
4.03	132.27	2-4-3-019-002	515	1	5/24/1996	1024788	SFD	DIEHL, STEPHEN	Road	ROAD	U	0.07
14.14	463.69	2-4-3-018-013	515	2	1/24/1996	1027452	SFD	PASTRANA, CRAIG	Road	ROAD	U	0.17
11.14	365.16	2-4-3-016-040	515	1	8/21/1995	1008420	SFD	SPRENGER, JACOB & LYNDEE	Road	ROAD	U	0.14
10.85	355.77	2-4-3-016-071	515	2	1/12/1995	1008427	SFD	BOCK, JOSEPH S	Road	ROAD	U	0.00
14.54	476.72	2-4-3-002-084	515	1	10/6/1994	1017150	SFD	NAKAMURA, DENNIS	Road	ROAD	U	0.00
38.00	1,245.98	2-4-3-007-005	515	1	5/23/1994	1007644	SFD	EDWARD, THOMAS	Road	ROAD	U	0.00
23.14	758.83	2-4-3-003-054	515	1	3/30/1994	1017133	SFD	BENSON, BRENT W	Road	ROAD	U	0.00
10.90	357.49	2-4-3-016-057	515	1	9/14/1993	1008461	SFD	HARLOW, MARK/ROBIN	Road	ROAD	U	0.11
21.80	714.62	2-4-3-016-028	515	1	7/21/1993	1008445	SFD	MURATA, AKIYO	Road	ROAD	U	0.00
10.61	347.98	2-4-3-005-063	515	1	7/2/1993	1017110	SFD	LANE, CHESTER	Road	ROAD	U	0.07
27.63	905.77	2-4-3-016-033	515	1	3/16/1993	1008425	SFD	FRANK, LEAH & DERON	Road	ROAD	U	0.11
26.97	884.21	2-4-3-016-070	515	2	3/16/1993	1008426	SFD	CHIN, MARYBETH	Road	ROAD	U	0.11
7.30	239.43	2-4-3-016-072	515	1	3/16/1993	1008428	SFD	MCGHEE, BRENDAN	Road	ROAD	U	0.00
31.59	1,035.66	2-4-3-005-043	515	1	12/9/1992	1005409	SFD	MAIERS, PAMP	Road	ROAD	U	0.00
9.18	300.96	2-4-3-018-012	515	1	10/21/1992	1027450	SFD	KEKONA, KENNARD	Road	ROAD	U	0.00
8.73	286.15	2-4-3-018-019	515	1	10/21/1992	1019760	SFD	LORENZ, KRISTA	Road	ROAD	U	0.00
7.10	232.81	2-4-3-018-024	515	1	10/21/1992	1007823	SFD	WARING, JAMES	Road	ROAD	U	0.00
38.19	1,252.16	2-4-3-018-028	515	1	10/21/1992	1027432	SFD	PADRON, NORMA	Road	ROAD	U	0.13
10.66	349.51	2-4-3-018-032	515	1	10/21/1992	1027437	SFD	STRAKA, ELIZABETH	Road	ROAD	U	0.13
15.54	509.45	2-4-3-018-037	515	1	10/21/1992	1019761	SFD	CRISTE, MANUEL	Road	ROAD	U	0.00
16.02	525.08	2-4-3-016-069	515	1	9/10/1992	1008422	SFD	TAYLOR, PATRICIA	Road	ROAD	U	0.11
4.85	159.10	2-4-3-003-107	515	2	6/30/1992	1017131	SFD	DADE, ROBERT	Road	ROAD	U	0.30
18.59	609.51	2-4-3-005-054	515	2	6/29/1992	1014452	SFD	SEE, ROBERT	Road	ROAD	U	0.18
30.38	996.09	2-4-3-018-020	515	1	4/24/1992	1019759	SFD	CANICO, ROBERT	Road	ROAD	U	0.00
22.99	753.88	2-4-3-018-018	515	1	3/18/1992	1019762	SFD	JUAN, JOSEPH	Road	ROAD	U	0.00
19.71	646.17	2-4-3-007-020	515	1	3/10/1992	1026031	SFD	ANDERSON, GREG	Road	ROAD	U	0.18
10.82	354.78	2-4-3-002-067	515	1	2/7/1992	1017147	SFD	KALUA, BYRON K	Road	ROAD	U	0.00
25.54	837.51	2-4-3-005-061	515	2	1/27/1992	1014451	SFD	RUSSELL, MICHAEL	Road	ROAD	U	0.00
5.94	194.75	2-4-3-007-026	515	1	12/9/1991	1017040	SFD	FORTUN, TRYG	Road	ROAD	U	0.00
20.09	658.66	2-4-3-018-038	515	1	11/15/1991	1027431	SFD	-	Road	ROAD	U	0.00
22.51	738.14	2-4-3-018-022	515	1	11/14/1991	1007824	SFD	ONATE, MANUEL	Road	ROAD	U	0.00
10.45	342.57	2-4-3-003-023	515	1	10/15/1991	1017026	SFD	HIGASHINO, PETER	Road	ROAD	U	0.00
6.13	200.87	2-4-3-018-006	515	1	9/20/1991	1027443	SFD	FERNANDEZ, LORI A	Road	ROAD	U	0.00
24.83	814.07	2-4-3-018-023	515	1	8/6/1991	1007825	SFD	GIEBER, BECKI	Road	ROAD	U	0.14
5.03	164.78	2-4-3-018-011	515	1	6/4/1991	1027448	SFD	SALVADOR, SERGIO	Road	ROAD	U	0.00
8.54	280.03	2-4-3-018-016	515	1	3/18/1991	1027449	SFD	PALTIN, TAMARA	Road	ROAD	U	0.00
5.33	174.75	2-4-3-018-031	515	1	3/14/1991	1027433	SFD	CROSSMAN, CHANTELE	Road	ROAD	U	0.00
4.92	161.28	2-4-3-018-033	515	1	3/14/1991	1027439	SFD	DELATORI, IRVIN	Road	ROAD	U	0.00
8.14	266.99	2-4-3-001-040	515	1	3/11/1991	1019765	SFD	FINCH, UTE	Road	ROAD	U	0.14
4.83	158.39	2-4-3-018-021	515	1	3/11/1991	1007822	SFD	MILLS, ANDREA	Road	ROAD	U	0.17
18.39	602.84	2-4-3-018-008	515	1	2/25/1991	1027445	SFD	NAKATA, DEAN	Road	ROAD	U	0.00
24.20	793.50	2-4-3-018-034	515	1	2/25/1991	1027442	SFD	LEE, BARBARA	Road	ROAD	U	0.00
23.90	783.74	2-4-3-015-035	515	2	1/1/1991	1009692	SFD	COOKE, MICHAEL	Road	ROAD	U	0.00
16.13	528.74	2-4-3-007-021	515	1	9/4/1990	1026029	SFD	FORTUN, TRYG/BARB	Road	ROAD	U	0.18
8.42	276.12	2-4-3-003-101	515	2	7/19/1990	1007640	SFD	MARTEN, CHAYNE	Road	ROAD	U	0.00
0.00	0.00	2-4-3-007-027	515	1	7/11/1990	1017025	SFD	TBBK LLC	Road	ROAD	U	0.00
28.29	927.43	2-4-3-005-012	515	1	3/5/1990	1005404	SFD	SACCO, LOUIS	Road	ROAD	U	0.00
23.75	778.74	2-4-3-007-023	515	1	10/18/1989	1026032	SFD	MARY COLBY TRUST	Road	ROAD	U	0.18
54.18	1,776.45	2-4-3-003-040	515	2	9/19/1989	1017134	SFD	RUSSELL, MICHAEL	Road	ROAD	U	0.00
6.70	219.78	2-4-3-016-039	515	1	5/18/1989	1008432	SFD	CARLOS, RONNIE	Road	ROAD	U	0.00
8.79	288.06	2-0-0-000-000	515	1	11/10/1988	1008460	SFD	ATKINSON, DAVID	Road	ROAD	U	0.00
5.26	172.46	2-4-3-019-032	515	1	8/18/1988	1005403	SFD	WEBSTER, RICHARD	Road	ROAD	U	0.00
17.25	565.66	2-4-3-003-089	515	2	8/8/1988	1007637	SFD	EUBANK, ROBERT L	Road	ROAD	U	0.29
24.63	807.51	2-4-3-003-019	515	1	11/23/1987	1007631	SFD	ONODERA, KUNIO	Road	ROAD	U	0.00
14.15	463.88	2-4-3-016-061	515	2	8/14/1987	1008467	SFD	TATMAN, MARA L	Road	ROAD	U	0.11
22.28	730.36	2-4-3-007-018	515	1	7/10/1987	1026035	SFD	BARBER, MILES H	Road	ROAD	U	0.18
11.96	392.02	2-4-3-003-037	515	3	12/15/1986	1016746	SFD	TAKAHASHI, HIDEO	Road	ROAD	U	0.00
6.39	209.37	2-4-3-016-022	515	1	10/29/1986	1020876	SFD	PARRILLO, DAMON	Road	ROAD	U	0.00
33.52	1,099.02	2-4-3-015-014	515	1	10/14/1986	1007621	SFD	FOADI, TANAZ	Road	ROAD	U	0.00
10.33	338.72	2-4-3-017-009	515	1	9/11/1986	1023383	SFD	LONG, ANTHONY CHRISTOPHER	Road	ROAD	U	0.00
13.14	430.74	2-4-3-017-010	515	1	8/29/1986	1023385	SFD	YOUNG, NANCY	Road	ROAD	U	0.00
5.08	166.53	2-4-3-016-023	515	1	8/1/1986	1020875	SFD	HARVEY, RENATE	Road	ROAD	U	0.00
10.22	334.97	2-4-3-017-060	515	1	6/30/1986	1018867	SFD	ONATIE, TYLER & KALEIGH	Road	ROAD	U	0.00
1.59	52.19	2-0-0-000-000	515	174	6/20/1986	1028210	SFD	NAPILIHAW COMM ASSN	Road	ROAD	U	0.00
7.65	250.66	2-4-3-016-064	515	2	6/18/1986	1008443	SFD	SHIMOMURA, ERNEST	Road	ROAD	U	0.00
8.31	272.38	2-4-3-016-065	515	1	6/18/1986	1008444	SFD	SHIMOMURA, CORWIN	Road	ROAD	U	0.00
19.89	652.24	2-4-3-017-067	515	1	6/6/1986	1018884	SFD	EIDE, KEVIN R	Road	ROAD	U	0.00
7.65	250.66	2-4-3-017-058	515	1	4/28/1986	1018866	SFD	WALLER, MELVIN	Road	ROAD	U	0.00
25.57	838.50	2-4-3-016-050	515	1	3/10/1986	1032540	SFD	SCHWEITZER, MATTHEW	Road	ROAD	U	0.29
21.56	706.75	2-4-3-017-008	515	1	11/22/1985	1002381	SFD	VALENTA, ALCY KAY	Road	ROAD	U	0.00
8.29	271.69	2-4-3-017-011	515	1	11/22/1985	1002376	SFD	SMITH, GREG	Road	ROAD	U	0.00
5.14	168.52	2-4-3-017-012	515	1	11/21/1985	1002374	SFD	LISK, ANNETTE	Road	ROAD	U	0.00
12.13	397.62	2-4-3-017-013	515	1	11/21/1985	1015219	SFD	WOLFE, LAURA J	Road	ROAD	U	0.00
11.85	388.47	2-4-3-017-016	515	1	11/21/1985	1005121	SFD	YAP, LEE AARON	Road	ROAD	U	0.00
8.56	280.60	2-4-3-017-017	515	1	11/21/1985	1005119	SFD	BOOKLAND, WILLIAM	Road	ROAD	U	0.00
9.82	322.08	2-4-3-017-026	515	1	11/20/1985	1005130	SFD	FLEMING, NATHAN	Road	ROAD	U	0.00
10.94	358.77	2-4-3-017-027	515	1	11/20/1985	1005132	SFD	NOLAN, DALINA	Road	ROAD	U	0.00
1.75	57.35	2-4-3-017-028	515	1	11/20/1985	1005120	SFD	WOODWARD, FRANK J	Road	ROAD	U	0.00
3.27	107.35	2-4-3-017-040	515	1	10/2/1985	1008731	SFD	FALAHEE, JAMES	Road	ROAD	U	0.00
22.24	729.29	2-4-3-017-041	515	1	10/2/1985	1008732	SFD	TENA, ANGELA	Road	ROAD	U	0.16
13.68	448.61	2-4-3-017-042	515	1	10/2/1985	1008721	SFD	CASERTA, DUSTIN	Road	ROAD	U	0.00
17.97	589.15	2-4-3-017-043	515	1	10/2/1985	1008724	SFD	SALVADOR, ALBERTO	Road	ROAD	U	0.00
12.28	402.65	2-4-3-017-044	515	1								

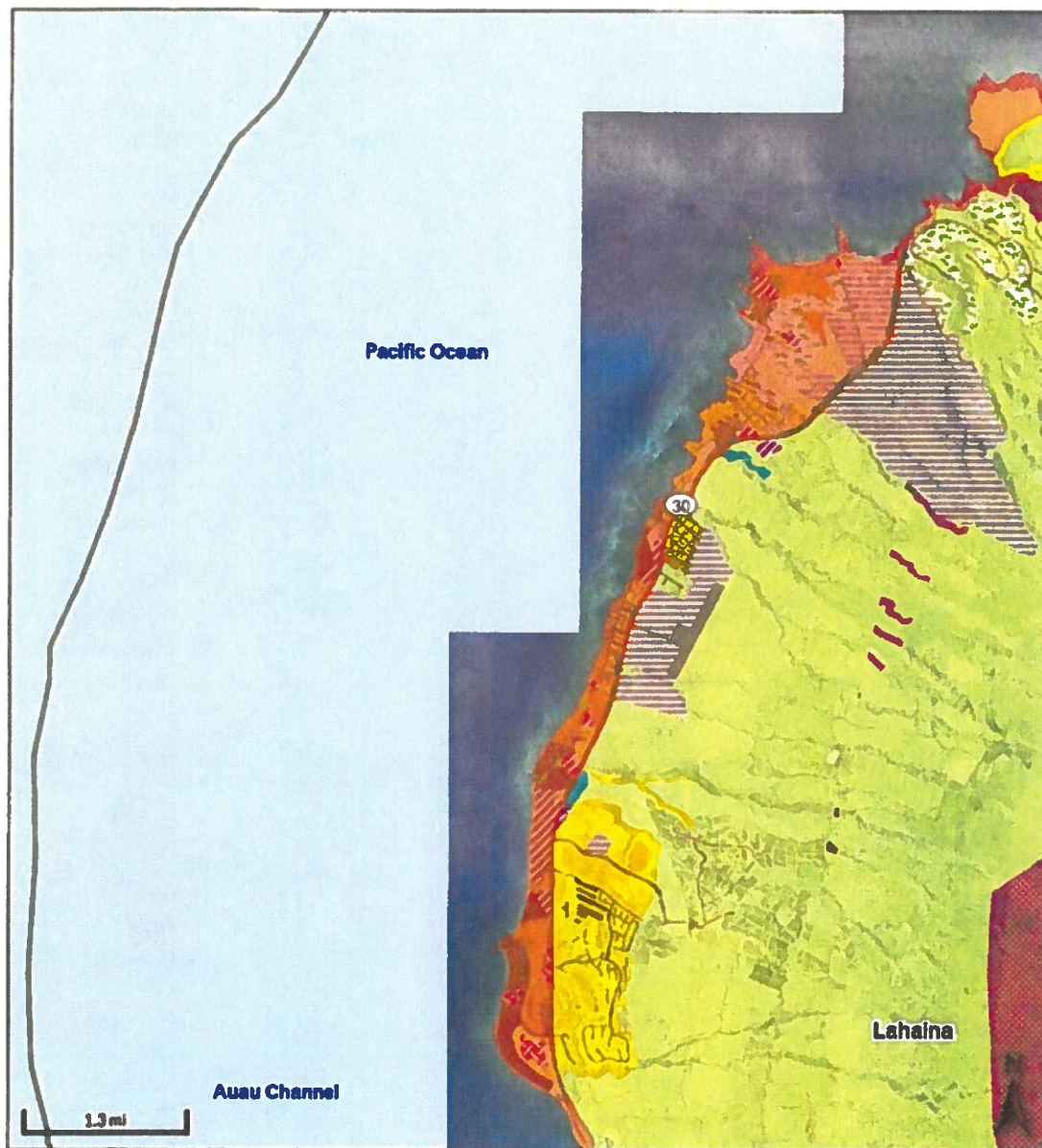
7.71	252.65	2-4-3-017-066	515	1	8/15/1985	1018882 SFD	VIERRA, ROBERT F JR	Road	ROAD	U	0.00
11.83	387.76	2-4-3-017-068	515	1	8/15/1985	1018862 SFD	ROCKETT, LOUISE	Road	ROAD	U	0.00
3.60	118.01	2-4-3-017-069	515	1	8/15/1985	1018863 SFD	SAGAR, STEVEN	Road	ROAD	U	0.00
9.85	322.95	2-4-3-017-070	515	1	8/15/1985	1015224 SFD	KESSNER, TIFFANY	Road	ROAD	U	0.00
10.77	352.95	2-4-3-017-053	515	1	8/13/1985	1018874 SFD	CLARION, LOLITA I	Road	ROAD	U	0.00
3.92	128.47	2-4-3-017-059	515	1	8/12/1985	1018865 SFD	MEDEIROS, WESLEY	Road	ROAD	U	0.00
19.99	655.44	2-4-3-017-061	515	1	8/12/1985	1018869 SFD	POFFENBARGER, JULIE	Road	ROAD	U	0.00
10.88	356.78	2-4-3-016-056	515	2	7/24/1985	1008458 SFD	CURTIS, BRUCE & ANNE	Road	ROAD	U	0.23
5.35	175.30	2-4-3-016-059	515	2	6/3/1985	1008465 SFD	MORREY, STUART	Road	ROAD	U	0.11
19.26	631.48	2-0-0-000-000	515	1	2/7/1985	1032541 SFD	CHEN, LUANN	Road	ROAD	U	0.29
15.87	520.46	2-4-3-016-052	515	2	12/21/1984	1032543 SFD	CASPERINO, MONICA	Road	ROAD	U	0.25
14.30	468.74	2-4-3-016-051	515	2	8/1/1984	1032542 SFD	CURTIS, BRUCE & ANNE	Road	ROAD	U	0.29
28.56	936.53	2-4-3-016-035	515	2	4/18/1984	1008429 SFD	KELLY, SKYE	Road	ROAD	U	0.00
5.19	170.03	2-4-3-016-029	515	1	4/9/1984	1008447 SFD	JOHNSON, CATHY	Road	ROAD	U	0.00
34.17	1,120.27	2-4-3-007-007	515	1	3/30/1984	1007647 SFD	ALBERT OAKS 2012 DYNASTY TRUST	Road	ROAD	U	0.00
7.27	238.22	2-4-3-016-058	515	1	3/1/1983	1008463 SFD	VERMEY, ALFRED	Road	ROAD	U	0.11
24.65	808.14	2-4-3-003-042	515	1	10/16/1981	1007646 SFD	SAVAGE, JUDY	Road	ROAD	U	0.00
22.98	753.28	2-0-0-000-000	515	2	8/27/1980	1008421 SFD	PALLI, SIMEON	Road	ROAD	U	0.10
11.76	385.55	2-4-3-003-100	515	2	12/5/1979	1007642 SFD	CURTIS, BRUCE & ANNE	Road	ROAD	U	0.00
10.85	355.71	2-4-3-016-025	515	1	7/13/1979	1007678 SFD	SHIMOMURA, DENNIS S	Road	ROAD	U	0.00
28.61	938.01	2-4-3-002-045	515	1	5/10/1979	1023474 SFD	RINEHART, ANDREW	Road	ROAD	U	0.00
22.06	723.39	2-4-3-003-104	515	1	11/8/1978	1017124 SFD	PALOMINO, DONNA	Road	ROAD	U	0.00
44.50	1,458.96	2-0-0-000-000	515	5	11/1/1978	1016745 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
52.07	1,707.13	2-0-0-000-000	515	5	11/1/1978	1015089 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
74.67	2,448.22	2-0-0-000-000	515	174	11/1/1978	1006185 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
95.78	3,140.33	2-0-0-000-000	515	9	11/1/1978	1015225 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
102.34	3,355.52	2-0-0-000-000	515	9	11/1/1978	1015091 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
138.04	4,526.04	2-0-0-000-000	515	5	11/1/1978	1015092 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
147.99	4,851.99	2-0-0-000-000	515	9	11/1/1978	1006188 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
159.59	5,232.60	2-0-0-000-000	515	7	11/1/1978	1016743 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
182.84	5,994.75	2-0-0-000-000	515	9	11/1/1978	1023479 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
204.39	6,701.37	2-0-0-000-000	515	26	11/1/1978	1006192 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
258.62	8,479.40	2-0-0-000-000	515	10	11/1/1978	1016750 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
4.13	135.49	2-4-3-002-067	515	1	11/1/1978	1017145 SFD	ESTATE OF MARY R KALUA	Road	ROAD	U	0.00
18.49	606.09	2-4-3-003-018	515	3	11/1/1978	1007628 SFD	CABATO, ROSALIE	Road	ROAD	U	0.00
20.65	677.19	2-4-3-003-024	515	1	11/1/1978	1007633 SFD	KUROSE, HIDEO	Road	ROAD	U	0.00
5.55	181.91	2-4-3-003-038	515	2	11/1/1978	1007636 SFD	WILSON III, ROBERT L	Road	ROAD	U	0.00
22.38	733.77	2-4-3-003-048	515	1	11/1/1978	1007635 SFD	MEADOWS, JIM	Road	ROAD	U	0.00
6.70	219.64	2-4-3-007-003	515	1	11/1/1978	1017135 SFD	SKODA, HANA	Road	ROAD	U	0.00
12.06	395.38	2-4-3-016-030	515	1	11/1/1978	1008448 SFD	BLEECHER, BARRY	Road	ROAD	U	0.11
7.21	236.37	2-4-3-016-037	515	2	11/1/1978	1001684 SFD	BARNETT, ROCKY	Road	ROAD	U	0.00
13.13	430.44	2-4-3-016-042	515	1	11/1/1978	1008419 SFD	SPRENGER, DON	Road	ROAD	U	0.14
8.12	266.12	2-4-3-016-043	515	1	11/1/1978	1008449 SFD	BERZABAL, DANIEL	Road	ROAD	U	0.14
46.57	1,526.89	2-4-3-007-009	515	1	3/20/1978	1007649 SFD	HUNT, ROBERT L	Road	ROAD	U	0.00
256.75	8,418.17	2-0-0-000-000	515	13	4/19/1977	1006186 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
15.36	503.55	2-4-3-002-086	515	1	6/8/1976	1007660 SFD	PANLASIGUI, LUCILLE	Road	ROAD	U	0.00
2.02	66.17	2-4-3-016-041	515	1	11/26/1974	1000884 SFD	SHIMOMURA, KENJI H	Road	ROAD	U	0.14
179.39	5,881.69	2-0-0-000-000	515	9	8/26/1974	1016749 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
111.71	3,662.57	2-0-0-000-000	515	4	7/19/1974	1015090 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
139.67	4,579.34	2-0-0-000-000	515	7	7/19/1974	1016747 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
188.79	6,189.86	2-0-0-000-000	515	7	7/19/1974	1016748 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
75.68	2,481.42	2-0-0-000-000	515	7	7/9/1974	1006193 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
281.64	9,234.04	2-0-0-000-000	515	9	7/9/1974	1006184 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
246.00	8,065.49	2-0-0-000-000	515	6	7/8/1974	1023477 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
89.60	2,937.73	2-0-0-000-000	515	174	3/5/1974	1006183 SFD	NAPILIHAIU COMM ASSN	Road	ROAD	U	0.00
38.58	1,264.78	2-4-3-003-097	515	4	11/27/1973	1007645 SFD	HAEFNER, MEGAN & ANDREW	Road	ROAD	U	0.00
7.01	229.73	2-4-3-007-024	515	1	10/18/1973	1026028 SFD	SEVERSON, MARIE LOUISE	Road	ROAD	U	0.18
26.21	859.18	2-4-3-002-078	515	1	10/12/1972	1017153 SFD	MCCABE, MARIE K	Road	ROAD	U	0.00
17.39	570.11	2-4-3-002-056	515	1	10/4/1972	1008412 SFD	LUJIAN, DANNY	Road	ROAD	U	0.00
6.13	200.98	2-4-3-002-079	515	1	8/10/1971	1017152 SFD	KULUKULUALANI, C	Road	ROAD	U	0.00
6.98	228.80	2-4-3-016-024	515	1	6/8/1966	1008424 SFD	ERICKSON, DIANE R	Road	ROAD	U	0.00
6.52	213.77	2-4-3-016-045	515	1	7/21/1965	1020881 SFD	O'HANLON, DAN	Road	ROAD	U	0.00
10.70	350.85	2-4-3-003-056	515	1	11/13/1964	1007612 SFD	DEAKOS, MARK	Road	ROAD	U	0.00
16.93	554.92	2-4-3-002-077	515	1	10/12/1964	1023469 SFD	MEDEIROS, COLLEEN	Road	ROAD	U	0.00
578.61	18,970.66	2-4-3-003-017	515	35	9/16/1964	1002207 SFD	ALAELOA MGT ASSN	Road	ROAD	U	0.00
56.29	1,845.55	2-4-3-002-045	515	1	4/2/1959	1023471 SFD	RINEHART, ANDREW	Road	ROAD	U	0.00
2.47	80.93	2-4-3-002-057	515	1	3/30/1959	1008413 SFD	NAPILI BEACH HOUSE LLC	Road	ROAD	U	0.00
14.39	471.78	2-4-3-020-054	513	1	5/30/2012	1040483 SFD	MATHAUSER, RICHARD	Road	ROAD	U	0.17
17.27	566.07	2-4-3-008-025	513	1	12/23/2004	1037169 SFD	COLVIN, PATRICIA	Road	ROAD	U	0.00
70.26	2,303.58	2-4-3-015-058	513	1	10/13/2004	1037048 SFD	RODDENBERRY, EUGENE	Road	ROAD	U	0.00
13.35	437.84	2-4-3-009-066	513	1	7/13/2004	1036772 SFD	HESS, KELLY	Road	ROAD	U	0.00
3.87	126.91	2-4-3-009-058	513	1	4/23/2004	1036644 SFD	TANAKA, LARRY T	Road	ROAD	U	0.00
25.57	838.22	2-4-3-006-056	513	1	3/19/2004	1036625 SFD	ASHBURN, KRISTI	Road	ROAD	U	0.00
18.80	616.48	2-4-3-009-076	513	1	2/17/2004	1036547 SFD	UYTTERHAGEN, KEVIN & LANA	Road	ROAD	U	0.00
18.57	608.91	2-4-3-009-055	513	1	12/30/2003	1036510 SFD	DEVER, CHRISTOPHER	Road	ROAD	U	0.17
8.34	273.33	2-4-3-009-067	513	1	11/13/2003	1036421 SFD	CAREY, JENNIFER	Road	ROAD	U	0.16
9.58	314.15	2-4-3-009-068	513	1	6/17/2003	1035857 SFD	PULMANO, LEILANI	Road	ROAD	U	0.00
12.02	394.13	2-4-3-009-061	513	1	4/25/2003	1035792 SFD	GANOY, REGELIO	Road	ROAD	U	0.00
21.36	700.16	2-4-3-009-079	513	1	4/25/2003	1035793 SFD	SUMAJIT, ROY	Road	ROAD	U	0.00
10.75	352.60	2-4-3-009-054	513	1	3/14/2003	1035667 SFD	KIRBY, DANA	Road	ROAD	U	0.17
17.75	581.97	2-4-3-009-081	513	1	3/11/2003	1035604 SFD	MANUEL, ROSEMARIE J	Road	ROAD	U	0.00
17.42	571.07	2-4-3-009-084	513	1	3/11/2003	1035621 SFD	RETOTAL, LININGNING I	Road	ROAD	U	0.00
17.48	573.03	2-4-3-009-052	513	1	3/10/2003	1035598 SFD	PEPA, TANGINOVA H	Road	ROAD	U	0.00
16.98	556.80	2-4-3-009-069	513	1	2/27/2003	1035580 SFD	ANDERSON, MICHAEL E	Road	ROAD	U	0.00
29.48	966.39	2-4-3-009-059	513	1	2/4/2003	1035561 SFD	FREDA, KALEA	Road	ROAD	U	0.00
32.72	1,072.87	2-4-3-009-032	513	1	7/17/2000	1033468 SFD	MARTIN, BILL & TINA	Road	ROAD	U	1.12
28.01	918.31	2-4-3-009-040	513	1	9/3/1999	1032913 SFD	RADEL, ERLE A	Road	ROAD	U	1.12
4.17	136.67	2-4-3-022-003	513	1	4/8/1999	1017002 SFD	TAY, SIMON	Road	ROAD	U	0.59
6.63	217.24	2-4-3-022-004	513	1	4/8/1999	1017003 SFD	WAKEFIELD, SHERRI L	Road	ROAD	U	0.59
0.00	0.00	2-4-3-022-005	513	1	4/8/1999	1017004 SFD	BENEDICT, DEBORAH	Road	ROAD	U	0.59
8.82	289.18	2-4-3-022-006	513	1	4/8/1999	1017005 SFD	PITTS, TIFFANY	Road	ROAD	U	0.09
8.15	267.16	2-4-3-022-007	513	1	3/12/1999	1017006 SFD	GRUBER, CORRIN	Road	ROAD	U	0.59
8.59	281.58	2-4-3-022-015	513	1	2/17/1999	1016995 SFD	TORONI, BARRY	Road	ROAD	U	0.59
8.06	264.15	2-4-3-022-016	513	1	2/17/1999	1016996 SFD	LAMMER, JOHANN HANS	Road	ROAD	U	0.09
0.00	0.00	2-4-3-006-085	513	1	12/19/1997	1005093 SFD	K & H KAHANA INC	Road	ROAD	U	0.12
6.72	220.36	2-4-3-006-087	513	1	12/15/1997	1005110 SFD	FAUSETT, ANDREA	Road	ROAD	U	0.09
8.62	282.57	2-4-3-006-088	513	1	12/15/1997	1005107 SFD	PATRY, NATHAN	Road	ROAD	U	0.00
6.96	228.28	2-4-3-006-095	513	1	12/15/1997	1005094 SFD	NEIZMAN, LORI	Road	ROAD	U	0.00
15.36	503.44	2-4-3-006-096									

2.36	77.24	2-4-3-008-066	513	1	11/8/1995	1005721	SFD	BERMEL, LOIS E	Road	ROAD	U	0.00
13.02	426.97	2-4-3-003-106	513	2	7/20/1995	1017123	SFD	LOUGHLIN, PETER	Road	ROAD	U	0.25
62.85	2,060.52	2-4-3-009-025	513	1	3/14/1995	1019718	SFD	FARROW, JOYCE	Road	ROAD	U	0.21
9.95	326.31	2-4-3-008-075	513	2	9/21/1994	1019707	SFD	ROBINSON, DAVID	Road	ROAD	U	0.00
20.79	681.48	2-4-3-019-046	513	1	7/19/1994	1017112	SFD	MAHALO 4593 LLC	Road	ROAD	U	0.00
35.52	1,164.54	2-4-3-015-034	513	1	4/15/1994	1009694	SFD	ANDERSON, TONY	Road	ROAD	U	0.00
4.87	159.81	2-4-4-001-087	513	1	5/17/1993	1011596	SFD	JOHNSON, LUZVIMINDA CHIONG	Road	ROAD	U	0.00
9.52	312.02	2-4-3-015-042	513	1	9/10/1992	1008480	SFD	MAIA FINN LLC	Road	ROAD	U	0.00
29.31	960.93	2-4-3-008-073	513	2	4/23/1992	1023597	SFD	MORGAN, CIMI P	Road	ROAD	U	0.00
13.47	441.53	2-4-3-008-076	513	1	1/23/1992	1007604	SFD	ROYER, STEVE	Road	ROAD	U	0.00
5.86	192.21	2-4-3-008-023	513	1	5/23/1990	1019694	SFD	SCHECHTER, HOWARD	Road	ROAD	U	0.00
11.78	386.26	2-4-3-008-063	513	1	10/20/1989	1019697	SFD	DEL CASTELLO TRUST	Road	ROAD	U	0.00
6.50	213.17	2-4-3-005-012	513	1	9/22/1989	1005407	SFD	CONDREY, MICHAEL & LILIANA	Road	ROAD	U	0.00
18.87	618.83	2-4-3-003-114	513	1	8/2/1989	1007630	SFD	COCHRANE, MARIE M	Road	ROAD	U	0.00
45.61	1,495.36	2-4-3-015-052	513	1	8/1/1989	1017121	SFD	LUSARDI, W C	Road	ROAD	U	0.00
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29.39	963.58	2-4-3-008-034	513	2	5/4/1989	1019706	SFD	VIERRA, MICHAEL	Road	ROAD	U	0.00
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35.92	1,177.68	2-4-3-008-074	513	1	1/5/1989	1023599	SFD	DUNN, ANDREA	Road	ROAD	U	0.00
11.29	370.27	2-4-3-008-060	513	2	10/28/1988	1029785	SFD	KAMISATO, NATHAN	Road	ROAD	U	0.00
125.51	4,115.00	2-4-3-015-043	513	1	10/1/1988	1008479	SFD	MAIA FINN LLC	Road	ROAD	U	0.00
17.41	570.77	2-4-3-008-028	513	2	9/8/1988	1019700	SFD	EXTON, EILEEN	Road	ROAD	U	0.17
37.43	1,227.19	2-4-4-001-020	513	1	7/26/1988	1007721	SFD	TRY HONOKOWAI LLC	Road	ROAD	U	0.41
32.95	1,080.25	2-4-3-009-015	513	2	4/29/1988	1007605	SFD	CAHILL, JOHN V & LINDA D	Road	ROAD	U	0.17
49.52	1,623.44	2-4-3-008-030	513	2	3/29/1988	1019703	SFD	SNEGOSKY, NICOLE	Road	ROAD	U	0.00
10.63	348.61	2-4-3-008-035	513	2	3/29/1988	1019678	SFD	ENSMINGER, DENNIS	Road	ROAD	U	0.00
17.00	557.43	2-4-3-008-018	513	2	2/5/1988	1019688	SFD	BURKE, TIM	Road	ROAD	U	0.00
21.92	718.55	2-4-3-003-115	513	2	1/20/1988	1017128	SFD	BARBERI, FRANCISCO JAVIER	Road	ROAD	U	0.00
18.98	622.30	2-4-3-008-012	513	1	12/22/1987	1019680	SFD	CLARK, DUANE E	Road	ROAD	U	0.00
32.37	1,061.45	2-4-3-009-009	513	2	11/19/1987	1001166	SFD	CASEY, SEAN P	Road	ROAD	U	0.00
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14.28	468.33	2-4-3-008-045	513	1	6/5/1987	1000724	SFD	SKOLNICK, MICHAEL	Road	ROAD	U	0.00
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21.74	712.62	2-4-3-009-041	513	1	1/14/1987	1022867	SFD	KAPALANI ESTATES LOT OWNERS	Road	ROAD	U	0.21
25.26	828.03	2-4-3-009-042	513	1	12/1/1986	1022869	SFD	KAPALANI ESTATES LOT OWNERS	Road	ROAD	U	1.12
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19.39	635.74	2-4-3-008-053	513	2	8/19/1986	1024372	SFD	HERTZ, KEITH	Road	ROAD	U	0.19
21.78	713.93	2-4-3-008-014	513	2	7/15/1986	1019684	SFD	MULLEN, DENIS	Road	ROAD	U	0.00
42.62	1,397.46	2-4-3-008-054	513	2	7/10/1986	1024374	SFD	TANG, LYNN	Road	ROAD	U	0.00
0.25	8.11	2-4-3-009-020	513	1	4/24/1986	1019714	SFD	PULPAN, JIRI	Road	ROAD	U	0.00
18.51	607.02	2-4-3-008-020	513	1	4/1/1986	1019690	SFD	MOFFETT, WILLIAM B	Road	ROAD	U	0.00
8.54	280.05	2-4-3-009-016	513	1	4/1/1986	1017085	SFD	GARABEDIAN, ROBERT P	Road	ROAD	U	0.00
16.65	545.77	2-4-3-008-022	513	1	2/7/1986	1019693	SFD	SCULLY, LINDA K	Road	ROAD	U	0.00
31.18	1,022.24	2-4-3-008-032	513	1	7/22/1985	1019704	SFD	SMITH, MATTHEW	Road	ROAD	U	0.00
39.64	1,299.56	2-4-3-008-055	513	1	5/17/1985	1019691	SFD	STEITZ, PHUONG E	Road	ROAD	U	0.00
8.72	285.74	2-4-3-008-033	513	2	4/30/1985	1001384	SFD	AVERY, RANDI	Road	ROAD	U	0.00
29.78	976.50	2-4-3-008-016	513	1	4/3/1985	1019686	SFD	BAILEY, DAVID A	Road	ROAD	U	0.00
11.38	373.03	2-4-3-009-038	513	1	4/1/1985	1000733	SFD	KAPALANI ESTATES LOT OWNERS	Road	ROAD	U	1.12
7.72	253.25	2-4-3-009-018	513	2	2/25/1985	1019719	SFD	MUFF, CHRISTINE	Road	ROAD	U	0.20
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11.66	382.35	2-4-3-008-068	513	1	10/30/1984	1005725	SFD	ANGEL, JOHN	Road	ROAD	U	0.00
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27.48	901.01	2-4-3-008-042	513	1	10/2/1984	1000719	SFD	FRANK, LEAH & DERON	Road	ROAD	U	0.21
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24.07	789.10	2-4-3-009-043	513	1	5/17/1984	1022871	SFD	KAPALANI ESTATES LOT OWNERS	Road	ROAD	U	1.12
41.38	1,356.83	2-4-3-009-044	513	1	5/17/1984	1022872	SFD	KAPALANI ESTATES LOT OWNERS	Road	ROAD	U	0.25
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16.59	543.88	2-4-3-008-019	513	2	11/9/1983	1019689	SFD	NAPORA, MICHAEL DALE	Road	ROAD	U	0.00
11.64	381.69	2-4-3-009-010	513	1	11/9/1983	1019709	SFD	CROSS, KATHARINE	Road	ROAD	U	0.00
25.09	822.54	2-4-3-009-039	513	1	10/31/1983	1000731	SFD	KAPALANI EST DEV CO	Road	ROAD	U	1.12
25.10	822.92	2-4-3-009-019	513	1	10/11/1983	1019720	SFD	KOCH, STEPHEN G	Road	ROAD	U	0.21
9.23	302.51	2-4-3-008-044	513	1	10/3/1983	1000722	SFD	JAMES, KATHERINE	Road	ROAD	U	0.00
24.50	803.28	2-0-0-000-000	513	1	9/30/1983	1000736	SFD	KAPALANI ESTATES LOT OWNERS	Road	ROAD	U	1.12
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7.18	235.44	2-4-3-008-062	513	2	9/21/1983	1019696	SFD	DAHL, JULIE	Road	ROAD	U	0.00
27.01	885.44	2-4-3-015-001	513	1	11/1/1979	1007626	SFD	SCHMIDT, SARAH	Road	ROAD	U	0.00
15.28	501.07	2-4-3-015-020	513	2	11/1/1978	1027465	SFD	RALAR, EDESL SR	Road	ROAD	U	0.00
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13.15	431.28	2-4-3-015-028	513	1	10/10/1978	1009699	SFD	LOVE 2 SURF LLC	Road	ROAD	U	0.00
9.40	308.09	2-4-4-001-096	513	2	11/28/1977	1011588	SFD	SHIBANO, RYAN & JUDY	Road	ROAD	U	0.00
71.13	2,331.97	2-0-0-000-000	513	1	11/4/1977	1007615	SFD	MAUI PARADISE REAL ESTATE	Road	ROAD	U	0.00
35.99	1,179.95	2-4-3-015-036	513	4	9/23/1974	1007617	SFD	DUSENBERRY, AULANI M	Road	ROAD	U	0.00
24.91	816.69	2-4-3-005-019	513	1	5/25/1973	1007613	SFD	SADANG, JOSEPH	Road	ROAD	U	0.00
10.97	359.67	2-4-3-015-021	513	2	10/2/1972	1027460	SFD	WOLFE, JUNA P	Road	ROAD	U	0.00
12.13	397.79	2-4-3-015-022	513	2	6/15/1971	1027467	SFD	KASPRZYCKI, ATOM & JENNIFER	Road	ROAD	U	0.00
17.81	583.77	2-4-3-008-085	513	1	4/22/1958	1007601	SFD	BERNAL, LAWRENCE	Road	ROAD	U	0.20
18.56	608.39	2-4-3-020-084	511	1	5/17/2000	1033354	SFD	KASTAN, CHERYLL	Road	ROAD	U	0.17
14.37	471.17	2-4-3-021-067	511	1	10/9/1998	1003403	SFD	LACEY, DONALD	Road	ROAD	U	13.04
18.17	595.66	2-4-3-016-060	511	2	3/12/1985	1008466	SFD	BROWN, DAVID	Road	ROAD	U	0.11
17.15	562.21	2-4-3-021-059	515	1	6/30/2003	1035890	SFD	MULLEN, DENIS			U	0.00
7.40	242.73	2-4-3-021-096	515	1	9/4/2003	1036315	SFD	KORY, MARK & VICKY				0.00
16.92	554.75	2-4-3-020-069	515	1	12/22/1998	1009270	SFD	BEECHTEL, STUART				0.00
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USES THAT DO NOT REQUIRE POTABLE WATER

[illegible]

APPENDIX F (1 of 3)



Overview



Legend

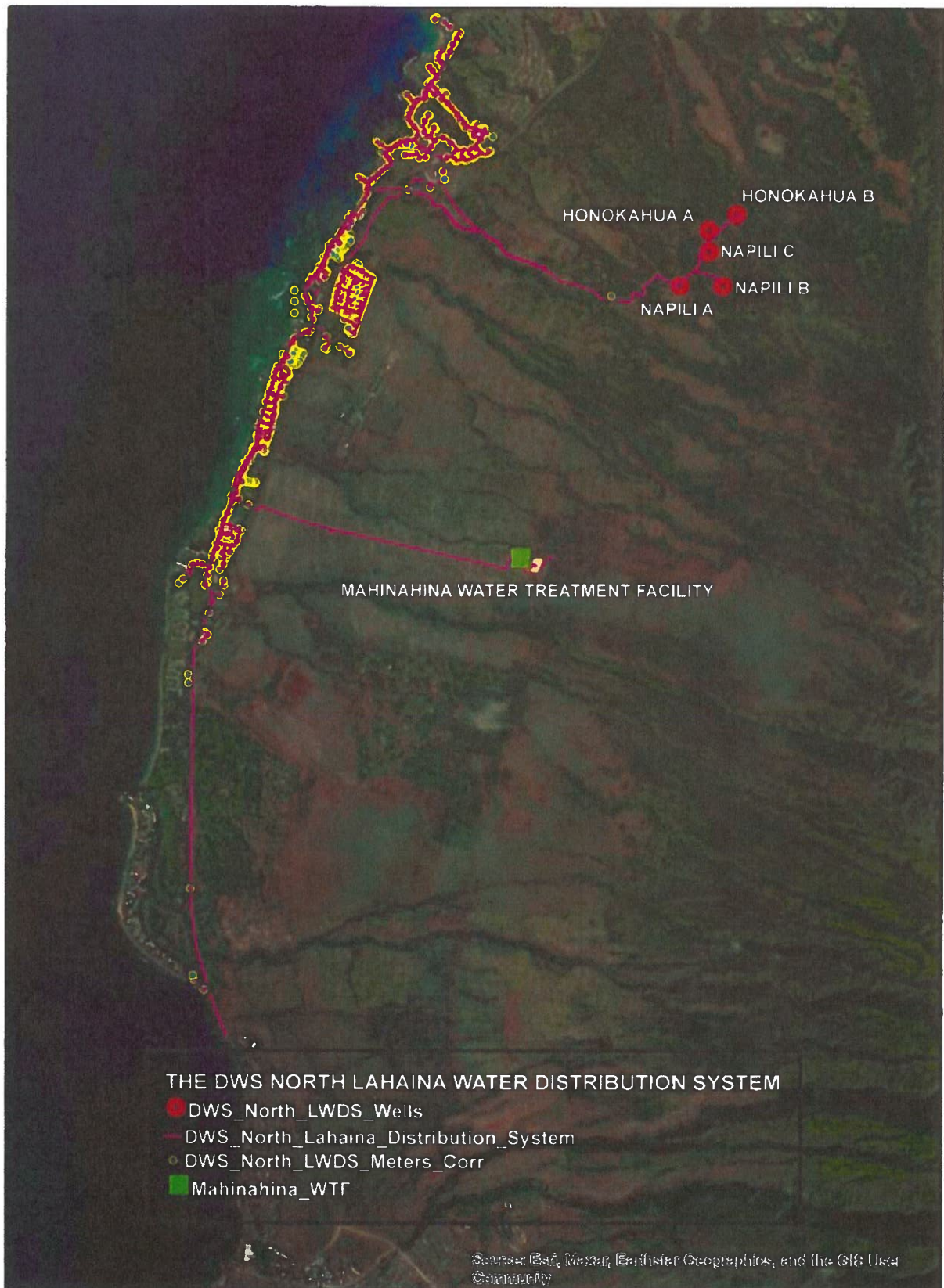
- Parcels
- Special Management Area
- Zoning Districts**
 - R-0 Residential
 - R-1 Residential
 - R-2 Residential
 - R-3 Residential
 - Residential - MRA
 - Multi Family - MRA
 - D-1 Duplex
 - D-2 Duplex
 - A-1 Apartment
 - A-2 Apartment
 - H Hotel
 - H-1 Hotel
 - HM Hotel
 - H-2 Hotel
 - B-1 Business-Neighborhood
 - B-2 Business-Community
 - B-3 Business-Central
 - BR Business-Resort
 - B-CT Business-Country Town
 - WCT Waikapu Country Town
 - Commercial Mixed Use - MRA
 - Business Multi Family - MRA
 - SBR Service Business Residential
 - M-1 Light Industrial
 - M-2 Heavy Industrial

-  M-3 Heavy Industrial
-  AP Airport
-  AG Agriculture
-  R Rural
-  RU-0.5 Rural 1/2 Acre
-  RU-1.0 Rural 1 Acre
-  KRTP Kihei Research and Technology Park
-  MRTP Maui Research and Technology Park
-  PD Project District
-  CID Napili Bay Civic Improvement District
-  HD-1 Historic District 1
-  HD-2 Historic District 2
-  HD-3 Historic District 3
-  UR Urban Reserve
-  GC Golf Course
-  OS Open Space
-  OS-1 Passive Open Space
-  OS-2 Active Open Space
-  Drainage
-  Planting Buffer
-  OZ Open Zone
-  P-1 Public/Quasi-Public
-  P-2 Public/Quasi-Public
-  Public/Quasi Public - MRA
-  P Public Use
-  Beach Right-of-Way
-  PK Park
-  PK(GC) Park-Golf Course
-  Interim
-  Proposed Road
-  Road Way Not Zoned
-  Not Zoned (road)

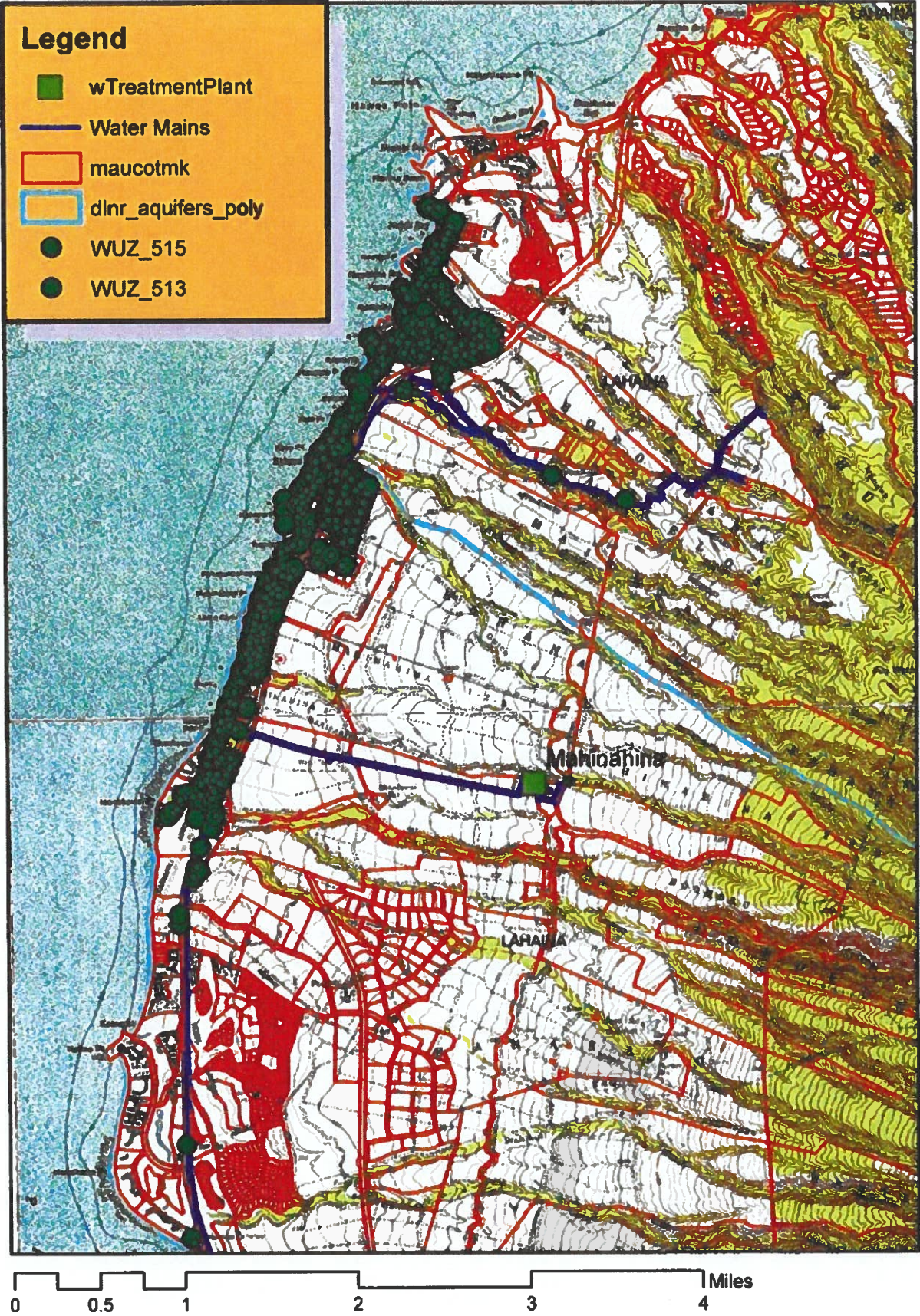
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APPENDIX F SERVICE AREA (2 OF 3)



APPENDIX F SERVICE AREA (3 OF 3)



APPENDIX G: IRRIGATION INFORMATION, PROPERTY TAX MAP WITH LOCATION AND PHOTOGRAPH OF USE



Legend

● DWS_North_LWDS_IRR_Services

● DWS_North_LWDS_AG_Services


□ Tax Map Key

0 0.1 0.2 0.4 Miles
|-----|-----|-----|



APPENDIX H

Ka Pa`akai Analysis



Ka Pa‘akai Analysis for Maui County Honokōhau Stream Diversion in the Honokōhau Aquifer System, Lahaina Aquifer Sector

Honokōhau Ahupua‘a, Kā‘anapali Moku, Island of Maui

AUGUST 2023

PREPARED FOR

**County of Maui, Department of Water
Supply**

PREPARED BY

SWCA Environmental Consultants

KA PA‘AKAI ANALYSIS FOR MAUI COUNTY HONOKŌHAU STREAM DIVERSION IN THE HONOKŌHAU AQUIFER SYSTEM, LAHAINA AQUIFER SECTOR

HONOKŌHAU AHUPUA‘A, LAHAINA MOKU, ISLAND OF MAUI

Prepared for

County of Maui, Department of Water Supply
200 South High Street
Wailuku, Hawai‘i 96793-2155
Attn: Eva Blumenstein

Prepared by

Tamara Luthy, Ph.D., and Wainani Traub, M.S.

Principal Investigator

Rowland Reeve, M.A.

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Honolulu, Hawai‘i 96814
(808) 548-7922
www.swca.com

SWCA Project No. 00078517

SWCA Cultural Resources Report

August 2023

EXECUTIVE SUMMARY

On behalf of the County of Maui Department of Water Supply (MDWS), SWCA Environmental Consultants (SWCA) conducted a Ka Pa‘akai Analysis in support of the water use permit application for the existing Honokōhau Stream diversion located within the Honokōhau Aquifer System in the larger Lahaina Aquifer Sector.

In 2022, the State of Hawai‘i, Department of Land and Natural Resources, Commission on Water Resources Management (CWRM) designated the Lahaina Aquifer Sector as both a Surface and Groundwater Management Area. As a result, the MDWS is required to submit water use permit applications to the CWRM for all existing and proposed water sources within the Lahaina Aquifer Sector.

As water use within the Lahaina Aquifer Sector has the potential to affect traditional and customary Native Hawaiian rights and practices, a required part of the CWRM water use permit application for each water use is the preparation of a Ka Pa‘akai Analysis. These analyses follow the guidelines established by the 2000 Hawai‘i Supreme Court decision in *Ka Pa‘akai O Ka ‘Aina v. Land Use Commission*.

Using a combination of archival research, existing oral history interviews, and public testimony from the CWRM’s Instream Flow Standard Assessment Report (IFSAR) meetings, this Ka Pa‘akai Analysis report identifies and discusses the traditional and customary practices undertaken within the Lahaina Aquifer Sector, and more specifically within the Honokōhau Aquifer System, that are related to water use and could potentially be impacted by water use related to the existing diversion of Honokōhau Stream. These traditional and customary practices include the cultivation of wetland *kalo* (taro, *Colocasia esculenta*), nearshore fishing, the gathering of *limu* (algae), and the gathering of medicinal and other plants. Traditional and customary practices such as gathering *lā‘ua lapa‘au* (medicinal plants), *lo‘i kalo* (flooded taro terraces) cultivation, and gathering riparian species such as ‘o‘opu (goby fish), ‘ōpae (endemic shrimp), the shellfish *hīhīwai* (*Neritina granosa*), and *hapawai* (*Theodoxus vespertinus*) all declined dramatically in the area due to decades of pineapple cultivation. In spite of this, cultural practitioners continue to farm *lo‘i kalo* and fish in the areas makai of the Honokōhau Ditch. In spite of the decades of disconnection from the mauaka areas due to the pineapple industry, cultural practitioners are currently increasing the number of *lo‘i kalo* under active cultivation and teaching *keiki* (children) and community members about *mauka* to *makai* (inland to coastal) stewardship, all of which require a sufficient availability of fresh water.

Historical accounts describe Honokōhau Valley as one of the most productive regions for *kalo* cultivation on the entire island of Maui, rivalled only by Kahakuloa. The development of commercial cultivation during the plantation era, however, led to a dramatic decline in *lo‘i kalo* cultivation in Honokōhau. The plateau lands between the deep cut gulches were converted into sugarcane and pineapple fields, and the Honokōhau Stream was diverted into the Honokōhau Ditch. Narrators who contributed to existing oral history interviews and public testimony believe that the existing Honokōhau Stream diversion directly impacts fresh water availability for *lo‘i kalo*. Cultural informants identify the Honokōhau Stream diversion as a decisive factor in the decline in key, culturally important natural resources such as ‘o‘opu (goby fish), ‘ōpae (endemic shrimp), the shellfish *hīhīwai* (*Neritina granosa*) and *hapawai* (*Theodoxus vespertinus*), *limu*, and nearshore fish. The Honokōhau Stream surfacewater diversion, paired with the ecological disturbances from legacy sugarcane and pineapple fields, have led to cascading effects on the natural environment. These effects include a decline in water to irrigate *lo‘i kalo*; silt, pesticide, and fertilizer runoff damaging the reefs; a lack of mauka to makai connectivity for ‘o‘opu and ‘ōpae, and an influx of invasive plant and animal species in the mauaka areas leading to increased fire risk, which in turn reduced aquifer replenishment.

This Ka Pa‘akai Analysis found that the Honokōhau Stream diversion contributes to an overall scarcity of freshwater that impacts the vitality of ongoing traditional and customary practices in the Honokōhau ahupua‘a. The Maui County Department of Water Supply has therefore agreed to undertake a number of feasible actions to maintain and potentially increase supplies of fresh water for Native Hawaiian traditional and customary practices. This Ka Pa‘akai Analysis identified a number of feasible actions to help mitigate the potential impacts of the existing stream diversion, which include soliciting ongoing feedback from community members; employing a mauka to makai approach to water conservation; supporting community-based efforts to restore watersheds; repairing, replacing, and maintaining existing infrastructure; maintaining and monitoring water quality; and developing alternative water source strategies.

Many words in the Hawaiian language, ‘Ōlelo Hawai‘i, are used throughout this report. In addition to being defined the first time that they are introduced in the report, all Hawaiian-language words are defined in the glossary (see Section 8 Glossary of Hawaiian Words Used in the Text).

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1 INTRODUCTION

On behalf of the County of Maui, Department of Water Supply (MDWS), SWCA Environmental Consultants (SWCA) has conducted this Ka Pa'akai Analysis in support of the water use permit application for the existing Honokōhau Stream diversion within the Honokōhau Aquifer System in the Lahaina Aquifer Sector.

1.1 Lahaina Water Management Area

In 2022, the State of Hawai'i, Department of Land and Natural Resources, Commission on Water Resources Management (CWRM) designated the Lahaina Aquifer Sector as a Surface and Groundwater Management Area. This decision was made in accordance with Hawai'i Revised Statutes (HRS) Chapter 174C, the State Water Code, and Hawai'i Administrative Rules (HAR) Title 13, Water Resources, Chapter 171, Designation and Regulation of Water Management Areas. As a result of this designation, the County of Maui Department of Water Supply is required to submit water use permit applications to the CWRM for all of its existing and proposed water sources within the Lahaina Aquifer Sector.

The Lahaina Aquifer Sector includes the *moku* (districts) of Lahaina and Kā'anapali, both within West Maui. The Lahaina Aquifer Management Area includes the Honokōhau, Honolua, Honokahua, Kahana, Honokōwai, Wahikuli, Kahoma, Kaua'ula, Launiupoko, Olowalu, and Ukumehame Surface Water Hydrologic Units and the Honokōhau, Honolua, Honokōwai, Launiupoko, Olowalu, and Ukumehame Groundwater Hydrologic Units. The Honolua, Honokōhau, Kahana, Honokōwai, and Wahikuli Hydrologic Units are in the Kā'anapali Aquifer System, whereas the hydrologic units of Launiupoko, Ukumehame, Olowalu, and Kaua'ula are within the Lahaina Aquifer Systems (Figure 1). The present report focuses on the Honokōhau Hydrologic Unit. The Honokōhau Hydrologic Unit encompasses the *ahupua'a* (traditional land divisions) of Honokōhau in the Kā'anapali moku (DLNR CWRM 2019b).

In coming to its decision, the CWRM noted several concerns regarding the surface and groundwater resources in the Lahaina Aquifer Sector:

- These resources could be threatened by existing or proposed withdrawals or diversions of water.
- There is the potential for harm to groundwater quantity and quality by saltwater intrusion.
- There are serious historic and ongoing disputes over current and planned uses of water.
- There is climate uncertainty and potential drought and decline in rainfall and recharge.
- There is surface and groundwater interaction and connection that should be managed in an integrated manner.

The MDWS currently operates two surface water treatment plants and eight well pumps within the Lahaina Aquifer Sector. These existing sources withdraw groundwater from the Honolua Aquifer System and the Launiupoko Aquifer System, and surface water from Honokōhau and Kanahā Streams. The MDWS is preparing water use permit applications for all of these existing water sources. In addition, the MDWS plans to prepare water use permit applications for new water sources under development.

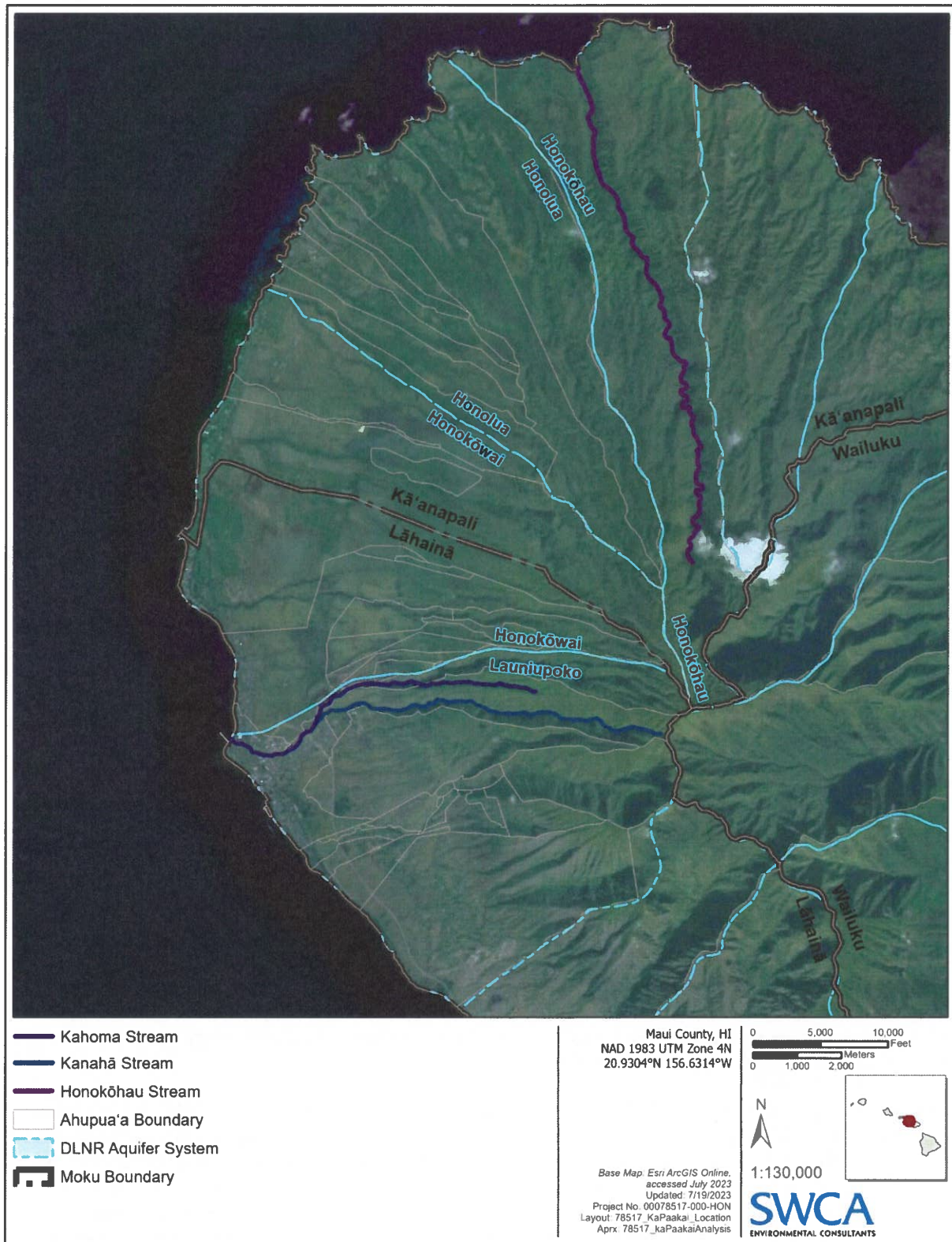


Figure 1. Map of Aquifer Systems within the Lahaina Aquifer Sector.

1.2 Honokōhau Aquifer System

The Honokōhau Aquifer System encompasses the ahupua‘a of Honokōhau. County water sources within the Honokōhau Aquifer System include the Maui Land & Pine diversion of Honokōhau Stream (Figure 2). This source provides water to the residential and resort communities in the Kā‘anapali area.

1.3 Water Issues

The *Maui Water Use and Development Plan* (2019) acknowledges that West Maui’s water resources are constrained by climate change issues such as rising temperatures, increasingly erratic and decreasing rainfall, and other changes in weather patterns. In addition, anthropogenic factors such as increasing population, urban growth, complicated legal processes, lack of capital to improve aging infrastructure, and tensions between the needs of various water users must all be considered by the County when determining water allocations. Existing plantation irrigation systems from Maui Land and Pineapple and Pioneer Mill Irrigation Systems in West Maui, for example, continue to deteriorate since the state transitioned away from pineapple and sugar cane, even though *kalo* (taro, *Colocasia esculenta*) farmers continue to rely on these systems (MDWS 2019:73). Many of these environmental and anthropogenic factors impact the health and vitality of traditional and customary practices taking place within the Lahaina Aquifer Sector.

1.4 Ka Pa‘akai Framework

As water use within the Lahaina Aquifer Sector has the potential to affect traditional and customary Native Hawaiian rights and practices, a required part of the CWRM water use permit application for each water use is the preparation of a Ka Pa‘akai Analysis. These analyses will follow the guidelines established by the 2000 Hawai‘i Supreme Court decision in *Ka Pa‘akai O Ka ‘Aina v. Land Use Commission*. The Ka Pa‘akai Analysis and consultation process is designed to identify Native Hawaiian cultural, historical, and natural resources and propose feasible actions to protect against potential impacts to Native Hawaiian customary and traditional rights.

The Hawai‘i State Constitution was amended in 1978 to specifically recognize traditional and customary Hawaiian practices. Article XII Section 7 of the Constitution states that, “The State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua‘a tenants who are descendants of Native Hawaiians who inhabited the Hawaiian Islands prior to 1778, subject to the right of the State to regulate such rights.”

Cultural practices are broadly defined as traditions, beliefs, practices, life ways, and the societal history of a community and its traditions, arts, crafts, music, medicine, religion, and related institutions. Hawai‘i State agencies have the responsibility to assess the potential impacts of proposed actions on environmental resources in the public trust in order to preserve and protect customary and traditional Native Hawaiian rights to the extent feasible.

The Hawai‘i Supreme Court in *Ka Pa‘akai O Ka ‘Aina v. Land Use Commission* (2000) reaffirmed that “the State and its agencies are obligated to protect the reasonable exercise of customarily and traditionally exercised rights of Hawaiians to the extent feasible.” The Court provided an analytical framework “to effectuate the State’s obligation to protect Native Hawaiian customary and traditional practices while reasonably accommodating competing private [property] interests.” Under this framework, state and county agencies must independently assess the following when considering proposed actions, such as reviewing land use applications or, as in this case, water use permit applications:

- The identity and scope of “valued cultural and historical or natural resources” in the petition area, including the extent to which traditional and customary native Hawaiian rights are exercised in the petition area;
- The extent to which those resources—including traditional and customary Native Hawaiian rights—will be affected or impaired by the proposed action; and
- The feasible action, if any, to be taken by the LUC [Land Use Commission, or any state agency] to reasonably protect native Hawaiian rights if they are found to exist. (*Ka Pa‘akai O Ka ‘Aina v. Land Use Commission* 94 Haw 13, Haw. 2000:25–26)

The Ka Pa‘akai Analysis and consultation process is intended to address each of these three elements.

1.4.1 Ka Pa‘akai Analysis

As part of the MDWS’s water use permit application for its existing and proposed water uses within the Lahaina Aquifer Management Area, a Ka Pa‘akai Analysis is required for each application. This analysis is designed to identify the cultural, historical, natural resources, and traditional and customary Native Hawaiian practices that may be affected by the permit action and to develop mitigation measures to protect these resources and rights.

The Ka Pa‘akai Analysis for the existing Maui County stream diversion located within the Honokōhau Aquifer System follows the guidelines established by the 2000 Hawai‘i Supreme Court decision and involves:

- The identification of cultural, historical, and natural resources of value to Native Hawaiians located within the water use permit area, and the extent to which traditional and customary Native Hawaiian rights are exercised in the area;
- The determination of the extent to which those resources, including traditional and customary Native Hawaiian rights, will be affected or impaired by actions associated with the existing water use; and
- If impacts are found to exist, the identification of actions that could be taken, as needed, to reasonably protect traditional and customary Hawaiian rights and practices within the permit areas.

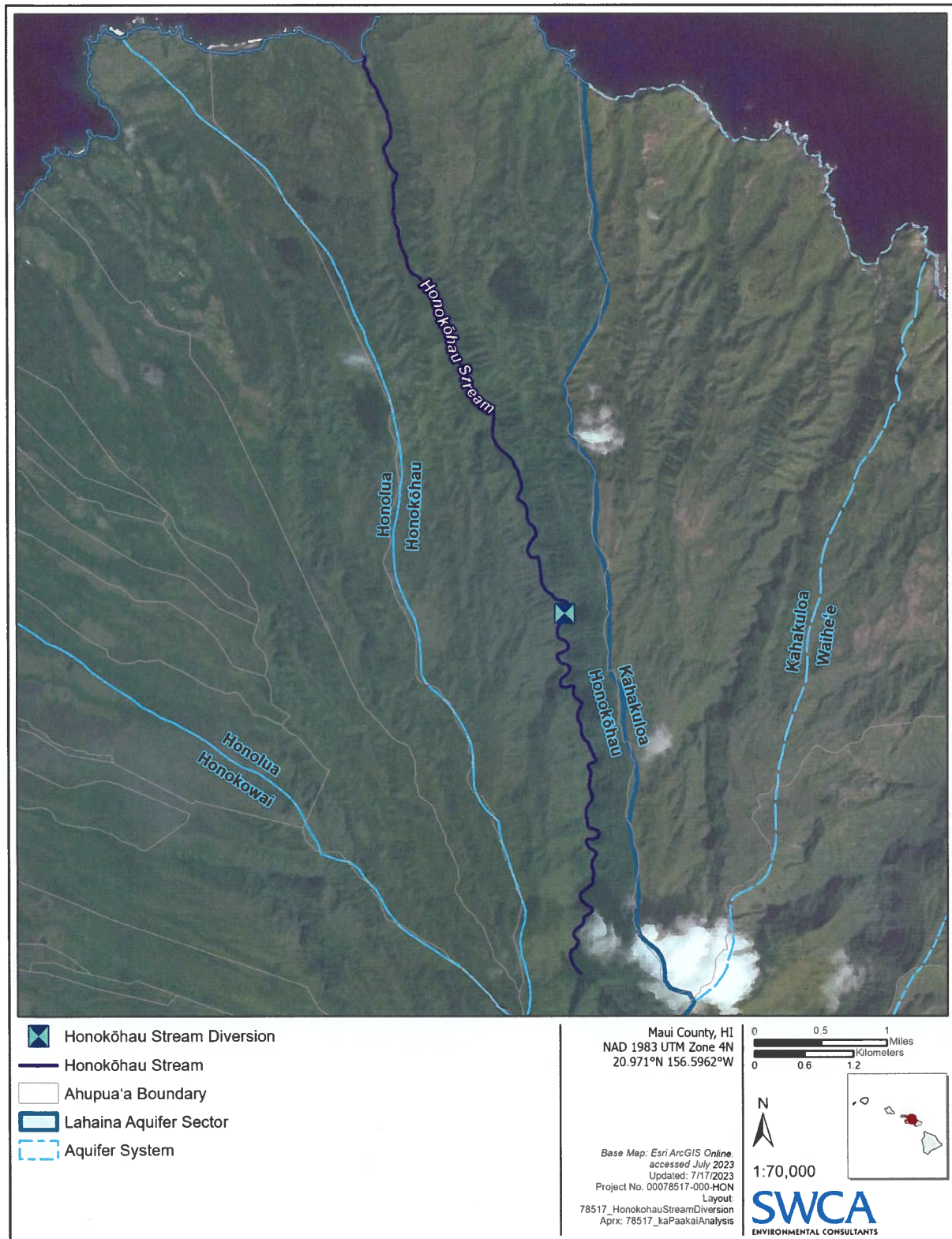


Figure 2. Location of the Honokōhau stream diversion.

2 CULTURAL AND HISTORIC BACKGROUND

This section presents the past and present historical and cultural significance of the permit area, with a focus on water sources. This cultural and historic background also serves to provide context to some of the historic and ongoing disputes over water use in the Lahaina Aquifer Sector Area. These disputes were among the concerns raised by the CWRM when designating the area as a Surface and Groundwater Management Area. The following research is intended to help identify cultural, historical, and natural resources of value to Native Hawaiians located within the water use permit area and to be sufficient to the extent appropriate to assess potential impacts to traditional and customary Hawaiian rights and practices pertaining to water in the permit area.

2.1 A Brief Historic Context for Traditional Hawaiian Cultural Knowledge

In any sensitive discussion of Native Hawaiian culture, one must understand the role of colonization in eroding traditional cultural knowledge systems. Native Hawaiian culture—past and present—exists in close partnership with its natural environment. Changes in the traditional land tenure system and the adoption of western concepts of land ownership in the nineteenth century had significant direct and indirect impacts on traditional and customary Hawaiian rights and practices tied to *‘āina* (land). The privatization of land resulted in the loss and destruction of many significant cultural resources and denied Native Hawaiian cultural practitioners access to lands previously used for traditional cultural purposes.

The loss of traditional Hawaiian cultural knowledge during the nineteenth and early twentieth centuries was further compounded by the devastating decline in the native population resulting from the introduction of foreign diseases to which the Hawaiian people had no developed immunity. Changes in traditional life ways resulting from the migration of younger people from the country districts to growing economic centers such as the port of Honolulu, as well as the shift from subsistence agriculture to the commercial cultivation of crops such as pineapple and sugar, contributed to a loss of cultural memory. With the passing of the last custodians of specialized cultural knowledge, that knowledge was lost forever.

Informants interviewed for this study have identified the effects of pineapple and sugar cane plantations, as well as the growth of tourism and luxury housing developments, as primary factors that have profoundly changed the environment of West Maui. The cumulative impacts of these industries on the environment have posed significant challenges for Native Hawaiians, hindering their ability to maintain certain traditional and customary practices reliant upon the health of the *‘āina*.

Not until 1978 was the Hawai‘i Constitution amended to protect and preserve the traditional customary rights of Native Hawaiians, and not until 1995 did the Hawai‘i Supreme Court confirm Native Hawaiian rights to access undeveloped and under-developed private lands (State of Hawaii Environmental Council 1997:1). These actions came much too late to prevent irretrievable loss of traditional cultural knowledge. With this in mind, it is important to note that an absence of evidence is not evidence of absence. The authors of this Ka Pa‘akai Analysis recognize that the loss of Hawaiian traditional cultural knowledge likely applies to the current study area. It is probable that there are place names whose meaning has been lost or which themselves have been forgotten, and traditions no longer passed on. We also recognize that, while we have made a good faith effort to identify traditional and customary Hawaiian rights and practices associated with the permit area, it is possible that there may be place names missed, traditional history misinterpreted, or *kūpuna* (elder) voices not heard.

As this Ka Pa'akai Analysis shows, however, despite the enduring legacies of colonialism, there are many individuals who possess cultural knowledge, and efforts to revitalize traditional and customary Hawaiian rights and practices are growing. For these cultural revitalization efforts to succeed, it is crucial to support the health of the environments that sustain Native Hawaiian cultural traditions and customs. At the core of ensuring the possibility of these cultural revitalization efforts lies the availability of clean water, which forms the foundation of healthy environments.

2.1.1 *The Significance of Water in Hawaiian Culture*

In *Native Planters in Old Hawaii*, E. S. Craighill Handy, Elizabeth Green Handy, and Mary Kawena Pukui explain that the significance of water in Hawaiian culture is reflected in the Hawaiian words for wealth and law.

Water, which gave life to food plants as well as to all vegetation, symbolized bounty for the Hawaiian gardener for it irrigated his staff of life—taro. Therefore, the word for water reduplicated meant wealth in general, for a land or a people that had abundant water was wealthy.

The word waiwai means wealth, prosperity, ownership, possession. Literally it is “water-water.” A Hawaiian farmer who had all the water he needed for growing taro was indeed a prosperous man...

The word kōnawai, or law, also tied back to water. Ka-na-wai is literally “belonging-to-the-waters.” With farms along the water system upon which all depended, a farmer took as much as he required and then closed the inlet so that the next farmer could get his share of water—and so it went until all had the water they needed. This became a fixed thing, the taking of one's share and looking after his neighbor's rights as well, without greed or selfishness.

So a person's right to enjoy his privileges, and conceding the same right to his fellow man, gave the Hawaiians their word for law, kōnawai, or the equal sharing of water. (Handy and Handy 1972:57–58)

They further explained how alien the Western conception of water as a commodity seemed to Native Hawaiians.

Inalienable title to water rights in relation to land use is a conception that had no place in the Hawaiian way of thinking... Water, whether for irrigation, for drinking, or other domestic purposes, was something that “belonged” to Kane-i-ka-wai-ola (Procreator-in-the-water-of-life), and came through the meteorological agency of Lono-makua the Rain-provider... The paramount chief, born on the soil and hence born of the maka'ainana of a moku (island or district), was a medium in whom was vested divine power and authority... But this investment... was instrumental in providing only a channeling of power and authority, not a vested right... But this was not equivalent to our European concept of “divine right.” The ali'i nui, in old Hawaiian thinking and practice, did not exercise personal dominion, but channeled dominion. In other words, he was a trustee. The instances in which an ali'i nui was rejected and even killed because of abuse of his role are sufficient proof that it was not personal authority by trusteeship that established right (pono). (Handy, Handy, and Pukui 1972:65, cited in Scheuer and Isaki 2021:78-79)

Emma Nakuina, writing in the late 1800s, described how *'auwai* (water ditches) were traditionally managed so that there was always sufficient fresh water flow to all individuals living downstream.

No auwai was permitted to take more water than continued to flow in the stream below the dam. It was generally less, for there were those who were living makai or below the same stream, and drawing water from it, whose rights had to be regarded. Any dams made regardless of this well-recognized rule were leveled to bedrock by the water rights holder below, and at any rebuilding, delegates from each dam below were required to be present to see that a due proportion of water was left in the stream. (Nakuina 1893, cited in Scheuer and Isaki 2021:82)

2.1.2 Shoreline Traditional Hawaiian Practices in West Maui

Native Hawaiians were keen observers of native ecosystems. The ahupua'a system was premised upon the interconnections between mauka (inland) and makai (coastal) ecosystems, and between *wai* (fresh water) and *kai* (ocean water or saltwater). Native Hawaiians understood that the health of important marine resources required freshwater discharge from mauka areas (Winter et al. 2018). Many prized species of fish rely upon *limu* (algae) for their food; many species of nearshore limu thrive best in areas with both fresh water and ocean mixing (Abbott 1992). These ancient realizations about the parallels between healthy freshwater and ocean ecosystems were also clearly articulated by kūpuna during ethnographic interviews, community testimony, and existing oral history interviews cited in this report.

West Maui was known for its abundant marine resources. Inhabitants of West Maui relied heavily on fishing in the pre-Contact and early post-Contact periods. According to E. S. Craighill Handy:

On the south side of western Maui the flat coastal plain all the way from Kihei and Maalaea to Honokahua, in old Hawaiian times, must have supported many fishing settlements and isolated fisherman's houses, where sweet potatoes were grown in the sandy soil or red *lepo* near the shore. For fishing, this coast is the most favorable on Maui, and, although a considerable amount of taro was grown, I think it is reasonable to suppose that the large fishing population which presumably inhabited this leeward coast ate more sweet potatoes than taro with their fish.... (Handy 1940:159–160)

A.D. Kahaulelio discussed fishing lore in the area around the turn of the last century, including 'ō'io (ladyfish/bonfish, *Albula vulpes*) fishing.

The other division is the division called Mamali oio and is done just beyond the reef and places close to shore, from the steamer landing of Maalaea to the cape of Kunounou at Honokapohau, district of Lahaina. These are the places in which fishing is done by those of Olowalu, Lahaina, Kaanapali, Honolua, and Honokohau. (Kahaulelio 1902, cited in Sterling 1998:17)

2.2 Ka'anapali Moku

2.2.1 I Ka Wā Kahiko: Pre-Contact Kā'anapali Moku

Kā'anapali Moku was a district known for its marine resources and valleys suitable for cultivating important food crops, especially kalo and 'uala (sweet potato; *Ipomoea batatas*). The large plateau overlooking the Honolua Bay was known as Kulapka'e'a, meaning "dusty plain." Honolua Bay is one of six bays in Kā'anapali Moku, known collectively as "Hono-a-Pi'ilani," meaning "the bays of Pi'ilani." Pi'ilani was a renowned sixteenth century Maui chief (Kamakau 1961:22). Honolua itself means "two bays," which refers to its bifurcated shape. These bays were all important to Native Hawaiians for fishing and gathering of marine resources. (Planning Consultants Hawai'i, LLC 2018)

Kā'anapali District was also known for an *ala loa* (long trail) constructed in the 1500s during the reigns of Pi'ilani and Kiha-a-Pi'ilani (Walker 1931). The strategic importance of Kā'anapali Moku led to battles between Hawai'i Island ali'i nui (high chief) Alapa'i and Pele-io-holani a ruling chief of Kaua'i, which occurred at Nāpili and Honokahua. (Kamakau 1961:74) The ahupua'a of Honolua and Honokahua were later granted to King Kamehameha II by his father, King Kahemahema I. (Ashdown 1978, cited in Planning Consultants Hawai'i, LLC 2018).

D.T. Flemming offers a description of Kā'anapali which indicates the abundance and prosperity of the valleys under kalo and sweet potato cultivation.

In all three valleys which you mention—Honokowai, Honokohua and Honolua, as well as Kahana, there was considerable taro raised in olden times; as a matter of fact, a great deal was raised in Honokowai, where there must have been 30 or 40 acres under cultivation at one time (Handy 1940:106).

Hand, Handy, and Pukui also mentioned extensive lo'i kalo in Honokōwai, Kahana, Honokahua, and Honolua.

The first four [Honokawai, Kahana, Honokahua, Honolua] all had extensive lo'i lands in their valley bottoms, where terraces rose tier on tier in symmetrical stone-faced lo'i. On this part of the coast there is no sloping kula land seaward of the valleys as there is back of Lahaina and southeastward (1972:494).

Handy offers additional details about sweet potato cultivation in these areas.

I am told that in ancient times there were numerous settlements on western Maui, between Honokohau and Kahakuloa, and also several between Kahakuloa and Waihee. Settlements in these localities imply planting of sweet potatoes on the lower kula...From [Olowalu] along the leeward coast, through Kā'anapali, the kula lands now used for sugar cane and pineapple would have been ideal for sweet potato culture. Some accounts indicate, however, that potato planting was practiced only as an adjunct to the taro culture in and below the great valleys (1940:160).

2.3 Traditional Cultivation in Honokōhau

E. S. Craighill Handy explains how the Honokōhau stream supported intensive cultivation of wetland taro.

This valley—watered by a large rivulet the flow of which never ceases, even today when much of its water is piped off in the upper valley—was, and still is, an area of intensive cultivation of wet taro and flooded terraces. In 1931 a larger proportion of the patches were under taro cultivation in Honokohau than anywhere else on Maui with the exception of Kahakuloa. In 1934 I observed that one or two considerable areas had been abandoned and that a number of patches had been planted to rice instead of taro, because of root rot affecting the taro. Only one old Hawaiian kamaaina, David Kapaku, still cultivates his own wet taro. The rest of the planting is done commercially by several small proprietors, Hawaiian and Chinese, and by laborers employed by D. T. Fleming, to whose enterprise largely is due the continued utilization of so many old terraces (Handy 1940:106).

2.4 Māhele ‘Āina

A dramatic change that affected the lives of Hawaiians in the 1840s was the Māhele ‘Āina (land division, also known as the Great Māhele or simply the Māhele), which ended the traditional Hawaiian system of land tenure and ushered in private ownership of land. Under the traditional system, the maka‘āinana (common people) occupied and worked the land under the supervision of the ali‘i and their konohiki (land stewards). The chiefs in turn held the land in trust for the ali‘i nui, who held it in trust for the akua (the gods). The Māhele, instituted by Kamehameha III, legalized the private ownership of land along the Western model, legislating that the lands of the Hawaiian Kingdom were to be “divided into three parts—one to the Chiefs, one for the support of the Government, and a third for the King’s personal use. These we know by the names of ‘Konohiki,’ ‘Government’ and ‘Crown Lands’” (Indices of Awards 1929:vii). It was principally from within the chief’s “one-third of the Great Māhele that the common people, who were their tenants, received title to the small holdings which are known as ‘Kuleanas.’ These Kuleanas were areas which these tenants had improved and used for their own purposes” (Indices of Awards 1929:vii).

In December 1845, a Board of Commissioners to Quiet Land Titles (often referred to as the Land Board or Land Commission) was established to investigate land claims and make awards based on these claims and their supporting testimony. If a claim was approved by the Board, a Land Commission Award (LCA) was granted to the claimant. These LCA properties were known as kuleana lands. Each claim was assigned a helu (LCA number). Often a single kuleana claim consisted of several ‘āpana (land divisions). An index of these claims can be found in *Indices of Awards Made by the Board of Commissioners to Quiet Land Titles in the Hawaiian Islands prepared by the Office of the Commissioner of Public Lands of the Territory of Hawai‘i in 1929* (Indices of Awards 1929).

2.4.1 Māhele Land Awards in Honokōhau

Well over 100 LCA awards are recorded for the ahupua‘a of Honokōhau. Several of these Māhele land documents describe ‘o‘opu fisheries and extensive lo‘i kalo systems in Honokōhau (Maly and Maly 2003:266, 267, 288; Kīpuka database). It is clear from these Māhele documents that the ‘o‘opu and kalo were important food sources to the people of Honokōhau. The large number of land awards corresponds with ethnohistoric research pointing to a large population in the area.

2.5 Plantation History

In 1860, James Campbell started what would become known as the Pioneer Mill Company, a sugar plantation in Lahaina. As the years progressed, the company expanded its holdings by acquiring Lahaina Sugar Company and the West Maui Sugar Company. By 1885, Pioneer Mill Company was cultivating 600 acres out of the total 900 acres it owned, and this number increased to 8,000 acres by 1910. In 1913 Pioneer Mill Company acquired the Olowalu Company, adding 1,200 acres of cane land to the plantation. By 1935, over 10,000 acres were producing cane for the Pioneer Mill. Approximately 1,000 acres of cane was flumed directly to the mill while the rest of the cane was transported by rail (Hawaiian Sugar Planters’ Association 2004).

Irrigation of Pioneer Mill Company’s fields, an area approximately 10 miles long and 1.5 miles wide with altitudes between 10 and 700 feet, was accomplished with water drawn from wells and water transported from the West Maui Mountains. The McCandless brothers drilled the first well on Maui specifically for Pioneer Mill Company in 1883. By 1935, substantial investments, totaling more than \$3,000,000, were made in water development, including gravity systems and underground supplies (Hawaiian Sugar Planters’ Association 2004).

Maui Land and Pineapple Company and Pioneer Mill jointly funded the construction of the Honokōhau Ditch. Since both of these companies ceased operations, water from Honokōhau Ditch has been diverted to support the non-potable needs of the Kapalua Resort and the Maui Department of Water Supply Mahinahina Water Treatment Facility (DLNR CWRM 2019c:1). The Maui County Department of Water Supply used an average of 1.68 million gallons (mgd) a day of water diverted from Honokōhau Stream between the years of 2003-2014. Maui Land and Pineapple Company reported an additional metered use of 1.0 mgd for resort and luxury home irrigation, 0.8 million mgd for golf course and related irrigation, and 0.2 mgd for diversified agricultural or other needs from Honokōhau Ditch. (DLNR CWRM 2019c:93). As of 2019, Maui County Department of Water Supply had an estimated use of 2.5 mgd (DLNR CWRM 2019c:95).

2.6 Historic Properties within Kā‘anapali

The Office of Hawaiian Affairs’ Kīpuka database lists a total of 60 identified historic sites located within the moku of Kā‘anapali (Office of Hawaiian Affairs [OHA] 2023b). Archaeologist Winslow M. Walker recorded two *heiau* (traditional temple or shrine) within Honokōhau ahupua‘a, ‘Ili‘ilikea Heiau and Maiu Heiau (Ashdwon 1978; Thrum 1909, Walker 1931).

3 COMMUNITY CONSULTATION

3.1 Community Consultation Methodology

SWCA identified and consulted with individuals familiar with past and present cultural activities conducted in the permit area, particularly those related to water. To initiate this process, SWCA compiled a list of cultural consultation contacts that included government agencies, Native Hawaiian Organizations (NHOs), community groups, and individuals identified as having a potential interest in water use activities in the Lahaina Aquifer Sector.

In compiling this list SWCA included all NHOs listed on the U.S. Department of Interior’s *Native Hawaiian Organization Notification List* whose geographical purview is Maui Island and whose stated mission relates to environment and/or culture. The list also included select NHOs with a statewide purview whose stated mission relates to environment and/or culture. SWCA prepared a request for consultation letter, a copy of which was sent out to each of the contacts on the cultural consultation contact list. The request for consultation letter delineated the area of the Lahaina Aquifer Sector, described the Ka Pa‘akai Analysis component of the water use permit application, and requested assistance in:

- Identifying *kama‘āina* (long-term residents), kūpuna, and other individuals who might be willing to share their cultural knowledge of the permit area and their cultural resources.
- Information on present and past water use in the permit area.
- Information on place names and cultural traditions associated with the permit area.
- Information on cultural resources that may be impacted by water use activities by the MDWS.
- Knowledge of traditional gathering practices within the permit area, both past and ongoing.
- Information on any current cultural practices being carried out within the permit area.
- Any other concerns the community might have related to cultural practices within or in the vicinity of the permit area.

The text of the request for consultation letter is provided in Appendix A of this report.

To supplement the current community consultation efforts undertaken as part of this Ka Pa‘akai Analysis, SWCA researched previous, publicly available studies that involved consultation with members of the Lahaina community regarding water issues. Information provided by community members and cultural practitioners as part of these studies that have direct relevance to the issues addressed in this analysis has been included in the following sections. The results of individual interviews, both previous and current, are presented under the names of the individuals interviewed.

3.2 Public Comments for the Instream Flow Standards Assessment Reports

In 2017 and 2019 the (DLNR), (CWRM) held consultation meetings to gather public comments for the Instream Flow Standard Assessment Reports (IFSAR) for the Lahaina Aquifer Sector. The public comments given during the meeting for Honolulu and Honokōhau are applicable to the current Ka Pa‘akai Analysis and are presented here to enhance and supplement the community consultation effort for this Ka Pa‘akai Analysis.

3.2.1 Public Comments for the Honolulu and Honokōhau Instream Flow Standard Assessment Report

The *Maui Water Use Draft Plan* references a meeting conducted on March 8, 2017, during which community members submitted testimony that the DLNR should “...refrain from issuing any more water permits before Native Hawaiian water rights are restored to practice traditional and cultural uses.” (MDWS 2019:20) These concerns were evident during two separate consultation meetings while developing the (IFSAR) for the Lahaina Aquifer Sector. The CWRM held a consultation meeting for the Hydrologic Unit of Honolulu and Honokōhau on September 9, 2019. As part of this study, the comments from the community were reviewed to determine what sorts of traditional and customary practices were carried out in the area, and what sorts of potential mitigation measures were recommended by these community members. A total of 17 people testified in person during the meeting for Honolulu and Honokōhau. The following section discusses the most relevant comments for the purpose of this report.

The public comments for Honolulu and Honokōhau revealed community concerns pertaining to sufficient water to irrigate existing and future lo‘i, the need for land stewards to maintain the ditches to ensure continuous water flow, enforcement of existing water allocations, and the need to protect and monitor populations of native stream species. The most relevant comments for this analysis have been organized by theme.

3.2.1.1 AGEING AND BROKEN INFRASTRUCTURE

Darryl Aiwohi of Honokōhau wanted to see CWRM act to ensure steady water supply after large storms:

Our stream, because of that last storm, I know it affected a lot of things. It really screwed up our stream. One of the questions is, what are you guys going to do to help me get rid of. I mean we’ve got, really I bring this here, but his taro patches are completely wiped out. The water came down and took all his soil, all his taro, he can’t grow taro any more....I know this storm was a one-in-100-year storm, but the river itself is trashed. When are you guys to, who is going to come and clean it?...Clean up and guarantee a steady water supply (DLNR CWRM 2019a: 2).

Sy Feliciano of Hoa‘āina Farm Services in Honokōhau Valley discussed fluctuations in water availability. He said that nobody routinely cares for or repairs the ditch anymore. He also expressed concern that the stream diversions at Honokōhau and Honokōwai are not being properly monitored. The fluctuations in water availability cause fish to die:

...I reached out to the taro farmers, mostly Wili Wood, to Keith, to other farmers, Kimo Lindsey, and asked them how the river is fluctuating during the big water and what’s happening. So a lot of the concern was there was a dry area from Aotaki dam down to Taro gate. So the dry area was because the high water would clog up the Aotaki gate and

then no water would flow for two miles until Taro gate was dumping water back in...And I watched the 'o'opu stress out and I asked Ayron a question, "how many days does it take for the fish to start dying." And he said, "maybe like four days maximum."
...Hoa'āina, Maui Land & Pine, they needed to be more responsible and get there within... Within 24 hours I could see the stream... the fish stressing, because there was no water coming through the dam. So what I'm hoping is with this stream report, we get more regulation on the diversions. So just because it's way up in the mountain and there's nobody really monitoring it and taking care of it, we need to have some kind of way of policing it and monitoring it and the response time needs to be, not four days, but 24 hours...So I'm hoping that this report can be a little more strict on those big diversions, not just Honokōhau, but Honokōwai, all these diversions... whoever is running this ditch needs to be on it...A lot of the water is being diverted for no reason, like Ayron said that when the high water happens, a lot of water is pushed into the intake, into the ditch, and it's not even being used. All these systems need to be repaired, need to be monitored, so the community who has a hard enough time to grow taro, doesn't have to be worried about when is the workers going to go up there and protect their right, their law... (DLNR CWRM 2019a: 4-5)

Ka'apuni Aiwahi of Honokōhau Valley also stated that, in addition to wanting 100% of the water restored to Honokōhau Valley, whoever manages the water needs to be responsible for fixing the dams and the gates in the valley:

...And what I would like to tell the Commission that I feel the right thing to do is to restore 100-percent of the water in Honokōhau Valley...With the gate, with the dam still broken, you know, we have people, we have the County, we have all these people wanting to take water, but where are they when it's time to take care of it. Where are they where we have these streams that the State manages, but who is the ones that are left to clean it. It's the people in the valley. It's not everybody else that lives outside the valley. (DLNR CWRM 2019a: 5-6)

Tamara Paltin of the Community Plan Advisory Committee wants to see the stream diversions removed and repairs made to existing infrastructure:

...[W]e need to have a big framework for growth for more lo'i in Honokōhau... For Honolua, when we were talking about the diversion there, they're saying that all this water goes into a diversion and it comes out a small little pipe and they're claiming that the entire amount of the water gets back into the stream and so I would say just remove the diversions. Remove the diversions that are broken, remove the diversions that are just taking the water and supposedly putting 100-percent back, because what's really the point of that if we're talking about a framework of growth and groundwater aquifer recharge is really important...If we're going to pump out more and more water, we need to recharge the aquifers and sounds like that's a good way to do it. I'm for more restoration of all the streams and more reuse of the R1 water. And if folks are going to be major diverters of water, then like the previous guy said, they need to also put back in. They cannot just take, take, take. They gotta maintain the systems, you know, not just leave it, oh, this is broken, oh, this is not working. If you want to take it, you gotta take care of it. (DLNR CWRM 2019a: 6)

3.2.1.2 INSUFFICIENT MONITORING AND ENFORCEMENT OF CURRENT WATER SUPPLIES

Jon Kindred of the Plantation Estates Lot Owners Association testified in relation to the Honokōhau Ditch:

We're aware that water in the ditch comes from diversions on the Honokōhau Stream as well as other sources [I.e. Honolua Stream]...[The application of new interim stream flow standards] should be incremental, beginning with immediate return of some waters to the Honokōhau Stream, while providing some level of assurance to existing, legal offstream users as reliable data is monitored regularly and necessary infrastructure improvements are made... (DLNR CWRM 2019a: 2)

Wili Wood of Honokōhau expresses grief over the multiple patches of kalo lost to irregular water flow:

We've been restoring and planting lo'i since 2005, with the help of volunteer groups, schools such as Pūnana Leo, Ke Kula Kaiapuni, and Kahana Canoe Club, for example...[T]here's been many occasions where we've lost entire patches, entire lo'is, due to insufficient and inconsistent water flow... And as we're pulling out these big kalo, you can stick your finger right through it. And that's the stuff we've been dealing with for years. After Tropical Storm Olivia, there was no one running the ditch system... There's a lot of people that would love to get back on their land, but the water is just not there. And when it is there, sometimes it's too high. And then it's too low the next day. So, we really need you guys to get together and help us, especially with the irrigator. The irrigator is a big concern of the taro farmers in the valley. And so, please, that's what we're asking you guys to decide on, the most water possible to the stream. Hundred percent if can... (DLNR CWRM 2019a: 9)

Kaipo Kekona of Kā'anapali discusses the impact of wells and water diversion on lo'i in Honokōhau:

I mean Honokōhau was almost 5,000 lo'is. And that was just, yeah, we went divert the water out of the stream and back into the stream...we talk about these lateral wells and wells was established here. Whether it's a lateral or vertical, whatever well was established, all of those wells was established upon resources or sources that were there before they put in their new management or their new infrastructure...These well systems were established on top of what was natural springs. Maybe the spring might have been further up the hill, but in order to get to that source quicker, they went tap in from the side with one lateral well on top of this spring that was pouring into our stream before that. So, that's just kind of where I think we should be considering, understanding our source better before we try to take it and divert it. When we can understand that from the beginning, we can move forward then. That's all I get other than the understanding of the taro, and the fauna, and the flora, and the establishment of the diversions, and whose rights is what, and what is the right use of water... (DLNR CWRM 2019a: 10-11)

Kekai Keahi, in addition to recommending R1 water, argued that West Maui Land, Maui Land & Pine, and Kā'anapali Land need to be held accountable for water usage:

... I know a person that works for West Maui Land Company. He's been telling me that Dave Minami, and Peter, and all of them, been telling them to put water back in the stream at night and in early morning reopen the water. Charlie caught the guy at the siphon, where supposed to have 700,000 at the siphon, he caught the guy turning the water back on at the siphon, saw the meter, and it was at 300,000 gallons. They've been taking this water, so no more enforcement. In my opinion, I don't think a private

company should be in charge of our assets. I get one problem with Maui Land & Pine, even Ka'anapali Land, handling our assets. Already, Aqua Engineers, they supposed to be managing, but they saying, oh no, Maui Land & Pine never pay us, so until we get the money we ain't going manage the system. That is screwed up, 'cause get people in the valley that stay hurtin'... They thinking, even with Kā'anapali Land, when the guy came up here, they looking at all this water going be taken away, and then they starting to feel the pressure. They starting to feel maybe what we've been feeling forever. Yeah? It happened when we testified with Kaua'ula, where I got one letter from one of the persons at Launiupoko saying that Peter Martin telling everybody that, of, the Hawaiians going take all your water, you not going get nothing, turning us into the bad guy. And so we went to the meeting, there's people from Launiupoko, saying eh, you guys gotta able for share, 'cause we worked so hard, we've been doing this, been doing that. ... You never did share with us. One hundred years that water been gone. We was lucky, from our family, we grew up inside Kahoma and Kanahā, we got to raise taro when we was small kids. And so we got to see what was like and how it was before. And what was good was when we stopped doing that, the yearning for go back nevah did go away. Was painful that we couldn't go back and farm our lands again. And so, we started going in different places. We go help Wili out, we go Charlie's place. Everywhere we can go, we went try open up taro again, like we did when we was young, but then we run into these companies, who really no give a shit about us, basically. And so I no really give a shit about what they think if they going lose water too. .. By the way, when I was looking at the Hawaiian Homes map, Kā'anapali Land, their coffee, part of 'em stay on top Hawaiian Homes, yeah? What the hell they doing? You gotta get the thing off. Charge 'em or something... He caught the guy right there turning on the valve with the meter open and saw how much gallons was coming out of the siphon... Also, that R1 water that Hawaiian Homes was talking about, as far as Lahaina goes and the use of that R1 water, I think that's one win-win situation as far as using that water for farm on Hawaiian Homes ag lands. That's a win- win situation 'cause that's water that we no don't gotta take out of any stream or any well... Maybe we can some water for dilute that water, but it's almost four million gallons a day that we could use for farming, which is awesome. I don't think Kā'anapali Land and Maui Land & Pine are really looking at R1 'cause they may be ag companies now, so-called, but I pretty sure they like change the zoning and turn 'em rural so they can make the big money... (DLNR CWRM 2019a: 14-15)

3.2.1.3 LACK OF VIABLE ALTERNATIVE WATER SOURCE STRATEGIES

Jonathan Scheuer, speaking on behalf of the Department of Hawaiian Home Lands, expressed interest in using R1 water as much as possible and supporting community efforts around stream restoration:

I just want to describe for the Commissioners and those present, and the Commission staff, how DHHL is approaching this opportunity to use R1 water on its lands at Honokōwai... The second is to aggressively exercise, reclaim, and protect Hawaiian Home Land water kuleana... When the third point, the third policy talks about DHHL as a public trust use of water, we recognize that we have a priority of water than standard private commercial uses. But we also realize, in this area, we're not going to take so much water that the public trust uses in Honokōhau Stream are going to suffer unbearably, so we want to seek uses like R1 water, but we're also committed, as it says in the other parts of the policies, to communicate with our beneficiaries. So before, as in the process of DHHL's going through right now for planning subsistence homesteading uses on the lands at Honokōwai, it will involve conversations about the kind of water available and the implications of the water choices that are available to make farming on that and

how that fits into the larger landscape...It's very supportive of the process of... you know, for so many years in Nā Wai 'Ehā and elsewhere, was the community having to lead the effort to get streams restored... (DLNR CWRM 2019: 7)

3.2.1.4 NEED TO MANAGE WATER USING AN AHUPUA'A-BASED APPROACH

Frank Caprioni wants to see more monitoring of water samples in the mountains, because what happens to water mauka affects the makai resources:

... I think...[t]he CMMA, the Community Management Makai Area that I think Ekolu Lindsey guys created down in Lahaina with using community members who are there every day...[are] taking water samples. I think we need to do the same thing up in the mountains too. And as we know now, I know it's kind of cliché sometimes to say, but mauka to makai. What happens up top effects down below, you know what I mean. So I think, everything that going on the reefs has to do with up in the mountains. Marine biologists, people, will all... they'll tell you this stuff too, you know. (DLNR CWRM 2019: 7-8)

3.2.1.4.1 Stream restoration as a means of supporting lo'i kalo farming

Kaniloa Kamaunu of Waihe'e Valley expressed that cultivation of kalo was the foundation of traditional and customary practice under kānāwai:

I always live by the kānāwai... It's our birthright. It was given to us. It's for every kanaka. When I see the kanakas come up here and beg for use for taro... taro was the law... You know, your Article 12, Section 7, talks about traditional customary practice. The aha moku that was established, 212 talks about customary generational, customary practices, traditional. Traditional is kalo is law. You no get land without kalo. You were rich if you had kalo. The more kalo you had, that means you were prosperous, so they give you more land, more kuleana. You get more water. Because that was the law. Kalo is relatives. It's not a thing where you just eat. It's not your food, but it is our relative. 'Āina, same thing. (DLNR CWRM 2019: 11)

Archie Kalepa observed firsthand the transformation of Kahoma Stream after water was restored, and wanted to see this for the people of Honokōwai:

When Pioneer Mill, Maui Land & Pine was here, a lot of the resources were diverted. Then came big subdivisions. We all need a place to live, but what has happened is we've taken so much from the main resource that that main resource is damaged. And it is not until you work every day and watch a river... That's an important resource that we need to maintain and manage to make sure, because long-term by taking care of Honokōhau, it's going to be able to take care of the community. Not only the community in Honokōhau, but the communities that exist today. But if we don't continue to take care of that, everybody else, Kā'anapali, everybody else, there's going to come a day that you're not going to have the resources. (DLNR CWRM 2019: 15-16)

3.2.1.4.2 Need for monitoring culturally important stream species

Kaneolani Steward, an assistant marine coordinator with the Nature Conservancy on Maui in cooperation with the Division of Aquatic Resources, mentioned that Honokōhau and Honolua Streams are home to 'ōpae kuahiwi, and 'o'opu nōpili, nākea, and 'alamo'o, and that stream surveys for both Honokōhau need to be conducted regularly to monitor current populations of stream species. Kaneolani also recommends

that educators should train community members and children on how to conduct stream surveys. The need for more R1 water was also mentioned:

...So for the Honokōhau report, under the point-quadrat survey area, you guys indicate nākea, ‘alamo‘o, and nōpili, but you guys fail to mention that ‘ōpae kuahiwi was also sighted, but ‘ōpae kuahiwi was however noted in the table...But in the table, you guys left out ‘o‘opu nōpili... (DLNR CWRM 2019: 12-13)

3.3 Ka Malu of Kahalawai and West Maui Preservation Association Formal Waste Complaint

The following section pertains to Maui Land and Pineapple Company’s Honokōhau Diversion 770. The larger issues with the Honokōhau diversions are relevant for the present study as they pertain to ongoing traditional and customary practices in the area of the Maui County diversion. The NHO Ka Malu o Kahalawai, along with the West Maui Preservation Association, filed a formal waste complaint against Maui Land and Pineapple Company, alleging that the company was allowing water that it diverted from the Honokōhau Stream to be wasted. The complainants were concerned that the water overflowing from the ditch ended up being released into gulches, roads, and ditches in the Wahikuli hydrologic unit to the south, rather than flowing downstream to supply lo‘i kalo in Honokōhau. (Ka Malu o Kahalawai and West Maui Preservation Association 2019:1–3)

Members of Ka Malu o Kahalawai included lo‘i kalo farmers, surfers, canoe paddlers, fishermen, and divers in the nearshore area of the Honokōhau hydrologic unit. CWRM staff, Maui County representatives, the mayor of Maui County, and representatives from Maui Land and Pineapple Company participated in a site visit in October 2018 to assess the damage after Hurricanes Lane and Olivia caused localized flooding and damage to Diversion 770 on Honokōhau Stream. They found that the hurricanes had badly damaged Diversion 770, rendering it inoperable. The Taro Gate, where Maui Land and Pineapple Company traditionally released water back into Honokōhau Valley, was blocked by sediment and debris, which prevented the water from being redirected to kalo farmers in the valley (Ka Malu of Kahalawai 2019:4).

Water wastage directly impacted the Honokōhau community, which was “experiencing a resurgence in food independence and Hawaiian cultural practices in which lo‘i kalo cultivation is expanding.” (Ka Malu o Kahalawai and West Maui Preservation Association 2019:6) According to the complainants, the 5.15 acres of kuleana parcels in Honokōhau Valley require an estimated 1.11 million gallons a day (MGD) of fresh water. The complainants also stated that an additional 10 acres of historic lo‘i kalo could be cultivated if there was an additional 1.01 mgd available (Ka Malu o Kahalawai and West Maui Preservation Association 2019:21).

The complainants, many of whom conduct traditional and customary practices such as paddling, diving, fishing, and surfing in nearshore areas, observed that the waste water from the ditch was warmer than regular fresh water discharge into the ocean. They were concerned that the periodic intrusion of warmer water would interfere with the reefs and other nearshore ecosystems thereby interfering with the traditional and customary practices described above (Ka Malu o Kahalawai and West Maui Preservation Association 2019:2). The petitioners had already experienced decades of warmer ditch water entering Hanakao‘o and nearby coastal waters from Honokōwai stream, Hahakea gulch, and sometimes Honolulu stream resulting from the Honokōhau Ditch diversions (Ka Malu o Kahalawai and West Maui Preservation Association 2019:37).

To resolve these issues, the petitioners requested the following.

Petitioners seek to prevent wastage by restoring to Honokohau stream surface water in amounts equal that wasted. Petitioners seek to require upgrades to MLP/KWC's diversion intake works from Honokohau stream to Honokohau/ Honolua ditch to better regulate the amounts removed from Honokohau stream to avoid waste in areas including lands used by KLMC through which the Honokohau ditch runs. Upgrades and better maintenance and regulation of the Taro Gate would also allow more water to be restored to Honokohau stream, instead of contributing to wasting events in offstream areas, including agricultural fields further south towards Wahikuli. KLMC should be prevented from allowing ditch water to run into fields and roads adjoining the ditch. KLMC's wastage facilitates MLP/KWC's ability to ignore the need to upgrade its intake/diversion works and better regulation and maintenance of the taro gate. MLP/KWC's intake should be upgraded such that it can be closed during periods of high water flow. This may mean better monitoring so that the Aotaki gate can be closed during high flow (or during times that less water is needed in the Honokohau ditch) and thereby result in that surface water remaining in the Honokohau stream. Another solution might lie in investing in sealing the current diversion and installing a gate with remote control capacity (to avoid difficulties and inconvenience with accessing the intake). Petitioners note that Kamehameha Schools has installed a remote control valve to control the gate above Kahoma stream that can be controlled via a computer (Ka Malu o Kahalawai and West Maui Preservation Association 2019:3).

3.4 Contemporary Ethnographic Information from *Water and Power in West Maui*

The following section includes excerpts of interviews with community members and cultural practitioners, public testimony, and legal proceedings from the Kā‘anapali area, as recorded by Jonathan Schuer and Bianca Isaki in their 2021 book *Water and Power in West Maui*. This volume discusses the historical roots of the contemporary grassroots fight by kalo farmers and cultural practitioners to ensure sufficient fresh water to perpetuate and revitalize traditional and customary practices, especially kalo farming. Many of the disputes recorded in this volume are between kalo farmers and large companies such as Maui Land and Pineapple Company, which has historically diverted much of the water in the Honokōhau Ditch. The following quotes are intended to provide additional ethnographic context about community concerns pertaining to the Honokōhau Stream Diversion. They also provide additional context for the formal water waste complaint discussed above.

Lahaina resident and community advocate Kapali Keahi, who helped organize the community to challenge MLP’s diversions in Honokōhau in the 1990s, discussed issues with trying to work with Maui Land and Pineapple Company:

Industry is a veritable vacuum for everyone. A lot of people backed off from farming taro. This was a generational shift – the older generation was getting too old to farm, and the younger generation did not have enough water to farm anyway (Scheuer and Isaki 2021:68).

Native Hawaiian Advisory Council, Inc. (NHAC)’s Elizabeth Pa Martin offered further insight into the tensions between kalo farmers and Maui Land and Pineapple Company. According to Martin, the company diverts water out of the watershed, which deprives kalo farmers of their appurtenant water rights.

The problem is not a lack of communication between taro farmers and Maui Pineapple. The problem is Maui Pineapple has been controlling the water flow of the Honokōhau Stream for decades. It diverts water to land outside the watershed and deprives taro farmers of their appurtenant water rights. Taro farmers do not have enough water and Maui Pineapple appears unwilling to change the status quo. The status quo is totally unacceptable to the farmers. We believe it should also be unacceptable to the Water Commission (Scheuer and Isaki 2021:177).

Kai Keahi, a member of the Native Hawaiian Organization (NHO) Ka Malu o Kahalawai member, felt that Maui Land and Pine mismanaged water resources from the stream intake in Honokōhau, which negatively impacted kalo farmers. Kai and others within the Ka Malu o Kahalawai filed a formal complaint about water wasting against MLP (discussed below).

We don’t necessarily disagree with most [of] the use that this water is used for, but MLP who controls the stream intake in Honokōhau Valley is notorious for its mishandling and mismanaging the water resources of Honokōhau. Quote often lo‘i farmers are left with minimal water to grow their crops, which threatens their harvest. The majority of Honokōhau Stream is taken out of the valley and sent southward towards Lahaina town. The real issue, and the cause of the loss of habitat and the ability to farm kalo, is that MLP when it receives the water at the intake they cannot control how much gets diverted so all of the stream is taken. Because MLP does not need all of Honokōhau Stream water, they dump the unused excess water into various other West Maui streams and areas, such as Honokōwai, Wahikuli, and Hanako‘o, thus continuing the dewatering of Honokōhau

Stream and hampering the ability of the aquatic life to reproduce and farmers to farm taro.....Allowing water to flow from its source to the ocean is vital for aquatic life and habitat as well as cultural practices such as lo'i kalo...Now is the time to make sure that tomorrow's streams are still flowing clean and abundant [with] life (Scheuer and Isaki 2021:72-73).

Wili Wood was also concerned about the profligate use of water by companies like Maui Land and Pineapple Company, particularly given water scarcity in West Maui.

Today, with global warming, sea level rise, and saltwater intrusion occurring in our small island's fragile aquifers, it is very unwise to be wasting such a valuable resource as water. This imposes a great level of responsibility on the people chosen or hired to be stewards are too often shortsighted businessmen (Scheuer and Isaki 2021:72).

Jonathan Scheuer and Bianca Isaki repeated allegations by Honokōhau farmer Wili Wood that Maui Land and Pine purposefully obstructed the flow of fresh water intended to feed the lo'i kalo.

Honokōhau taro farmer Wili Wood went to investigate the upstream water works to determine the cause of the low flows. When Wood walked up to taro gate, he found it fully closed with a plastic bag filled with sand wedged against it, such that no water at all could get through. The gate was padlocked shut. Hundreds of 'ōpae huddled in the small pool that remained in front of the gate. Honokōhau residents reported that MLP contractors admitted to being paid to go up and close and lock taro gate and the count denies it has anything to do with closing the gate (2021:73).

West Maui Moloka'i Taro Farmers Association (WWMFTA) members wrote about the effects of the dam constructed by Maui Land and Pine in the upper part of the Honokōhau valley:

We need more water. Our crops are being damaged because of the lack of water and it is frustrating (Scheuer and Isaki 2021:177).

4 CULTURAL, HISTORICAL, AND NATURAL RESOURCES

The following is a short overview of cultural, historical, and natural resources of value to Native Hawaiians within the vicinity of the permit area. This overview is the result of archival research and interviews with individuals knowledgeable about contemporary traditional and customary Native Hawaiian rights and practices undertaken within the permit area or associated with fresh water resources. These cultural resources are needed for Native Hawaiians to have the ability to conduct cultural practices and perpetuate indigenous knowledge.

4.1 Culturally Significant Natural Resources

Native Hawaiian culture focused heavily upon natural resources. The moku system allowed Native Hawaiians to manage biocultural resources in a sustainable fashion, which provided food to inhabitants from mauka to makai (Winter et al. 2018). Excluding insects and other invertebrates, there are nine native species found in Hawai'i's streams. These consist of five types of fish, two types of crustaceans, and two types of mollusks. All of these species exhibit amphidromous behavior, which means they migrate between freshwater habitats and the ocean. Eight of these species are endemic to Hawai'i. Native Hawaiians called the fish 'o'opu, the crustaceans 'ōpae, and the mollusks hīhīwai (or wī) and hapawai. While there are several more Hawaiian names to describe regional variations and physical differences of these creatures, these are the most common names by which they are known. Several 'ōlelo no'eau

(traditional Hawaiian proverbs and poetical sayings) and *mo‘olelo* (stories) demonstrate that Native Hawaiians were observant of these creatures and understood their life cycles, behaviors, and habitats well. These native freshwater fish, crustaceans, and mollusks were an important food source to Native Hawaiians (Miike 2004:14–18).

4.1.1 Limu

Native Hawaiians use *limu* freshwater and marine algae as a relish or condiment to season food. While the marine varieties of limu are known for their more pronounced taste, the freshwater limu found on rocks in streams is also collected and enjoyed as part of the diet (Krauss 1993:16). Many species of nearshore limu thrive best in areas with both fresh water and ocean mixing (Abbott 1992).

Blossom Feiteira, a cultural informant interviewed for this Ka Pa‘akai Analysis, remembered that the shores of West Maui were home to abundant limu varieties in the 1960s, especially manuea, kohu, wailoe, līpoa, and ‘ōpihi limu. Limu ‘ele‘ele, limu kohu, limu līpe‘e, limu līpoa, limu manaua, and limu wāwae‘iole also emerged as culturally significant species previously abundant in the area prior to the 1970s.

4.1.2 Freshwater Stream Species

Māhele land documents, oral history interviews and public testimony reveal that culturally important freshwater stream species such as ‘o‘opu were abundant in the Honokōhau stream. Several of these Māhele land documents describe ‘o‘opu fisheries in Honokōhau (Maly and Maly 2003:266, 267, 288; OHA 2023a). It is clear from these Mahele documents that the ‘o‘opu was an important food source to the people of Honokōhau. Kaneolani Steward observed that many species of ‘o‘opu are still present in Honokōhau Stream, although they are endangered by a lack of mauka to makai connectivity.

4.1.3 Lo‘i Kalo Farming

The cultural importance of kalo cultivation arose in nearly every interview and segment of public testimony presented in this report. Kalo farming emerged as perhaps the most important traditional and customary cultural practice taking place in the vicinity of the Honokōhau stream. Historically, Honokōhau Valley had more extensive lo‘i kalo cultivation than any other area of Maui except for Kahakuloa. According to the 2019 complaint filed by Ka Malu o Kahalawai and West Maui Preservation Association, today only about 5.5 acres of Honokōhau are covered by lo‘i kalo. Kalo farmers continue to educate the younger generation about kalo cultivation and also try to open up new lo‘i. However, the diversion of water from the Honokōhau Ditch remains one of the largest obstacles to farming kalo in Honokōhau Valley.

4.1.4 Native Plant Resources and Lā‘au Lapa‘au

The current study did not uncover reliable information about the cultural practice of gathering plants for lā‘au lapa‘au (traditional plant-based medicines) or for other reasons within the permit area for the Honokōhau stream diversion. However, given that the mauka areas of the nearby Honolua Aquifer System are home to numerous native plant species (Tetra Tech 2021, cited in Wong and Lee-Greig 2021:67), we expect that the mauka areas of Honokōhau Valley would have had a similar vegetation regime. Maui Land and Pineapple Company, Inc. engages in revegetation efforts in Honolua Wao Kele in the Pu‘u Kukui Watershed Management Area for the purpose of watershed protection and Native Hawaiian cultural education. Within this preserve 9,881-acre section of native forest are 40 rare plant species and 6 endemic land snails. (PBR Hawai‘i and Associates 2007: 5-6) The mauka areas of nearby

Honolua Aquifer System are home to important native plant species such as ‘akoko (*Euphorbia celastroides* var. *lorifoli*), ‘ākia (*Wikstroemia oahuensis* var. *oahuensis*), ‘ēkaha (*Asplenium nidus*), alahe‘e (*Psydrax odorata*), .a‘ali‘i (*Dodonaea viscosa*), huehue (*Cocculus orbiculatus*) ‘iliahialo‘e (*Santalum ellipticum*) kīlau (*Pteridium aquilinum* ssp. *Decompositum*), kā‘ape‘ape (*Cyrtomium caryotideum*) kolokolo (*Adenophorus tenellus*), ‘ōhi‘a lehua (*Metrosideros polymorpha* var. *glaberrima*), koali ‘awahia and koali ‘awa (*Ipomoea indica*), moa (*Psilotum nudum*), pala‘ā (*Sphenomeris chinensis*), palapalai (*Microlepia strigosa* var. *strigosa*), pūkiawe (*Leptecophylla tameiameia*), ‘uhaloa (*Waltheria indica*), ‘ūlei (*Osteomeles anthyllidifolia*). Many of these species have known ethnobotanical uses (see Krauss 1993 for more details about Hawaiian ethnobotany).

Continuing protection of native forest ecosystems could allow for more individuals to return to traditional and customary gathering practices within the Honolua Aquifer System. Additionally, considering the vast geographic scope of the area surveyed by this Ka Pa‘akai Analysis, it is important to note that it is possible that cultural practitioners do gather within the areas impacted by the existing Honokōhau stream diversion though it was not captured here.

4.2 Coastal Fishing and Gathering

Historical accounts by A.D. Kahaulelio (1902) and others indicate that nearshore fisheries off the coast of Kā‘anapali were vital for the subsistence of local people. The water wastage claim filed by Ka Malu o Kahalawai and West Maui Preservation Association discussed subsistence fishing as a major ongoing customary practice that continues in the nearshore area of the Honokōhau Hydrologic Unit (Ka Malu of Kahalawai and West Maui Preservation Association 2019:4).

4.3 Other Nearshore Cultural Practices

The water wastage claim filed by Ka Malu o Kahalawai and West Maui Preservation Association discussed ongoing traditional and customary practices, such as surfing, canoe paddling, and diving, in the nearshore area of the Honokōhau Hydrologic Unit (Ka Malu of Kahalawai and West Maui Preservation Association 2019:4).

4.4 Cultural and Historical Sites

Archaeologist Winslow M. Walker recorded two heiau in Honokōhau ahupua‘a, ‘Ili‘ilikea Heiau and Maiu Heiau. ‘Ili‘ilikea Heiau is located on top of a ridge on the west side of Punaha Gulch above a road. Maiu Heiau is located on the east side of Honokōhau Valley on a cliff 200 feet above the sea. Maiu Heiau was used for human sacrifice (Sterling 1998:54). Another noteworthy site in Honokōhau is the Waiuli Pit which was used as a burial place for the common people of Lahaina to Kahakuloa (Sterling 1998:55).

5 ASSESSMENT OF POTENTIAL IMPACTS

A primary purpose of this Ka Pa‘akai Analysis is to identify “the extent to which those resources—including traditional and customary native Hawaiian rights—will be affected or impaired by the proposed action” (Ka Pa‘akai O Ka ‘Aina 2000). This section presents the assessment of potential impacts to traditional and customary Native Hawaiian rights and practices as a result of the proposed continued use of the MDWS Honokōhau stream diversion within the Honokōhau Aquifer System.

5.1 Types of Traditional and Customary Rights Referenced Under the State Water Code

The following provision on Native Hawaiian water rights outlined in the State Water Code, HRS §174C-101, defines the types of traditional and customary water rights of Native Hawaiians:

(c) Traditional and customary rights of ahupua‘a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Islands prior to 1778 shall not be abridged or denied by this chapter. Such traditional and customary rights shall include, but not be limited to, the cultivation or propagation of taro on one’s own kuleana and the gathering of hīhīwai, ‘ōpae, ‘o‘opu, limu, thatch, ti leaf, aho cord, and medicinal plants for subsistence, cultural, and religious purposes. (2019:15)

It is notable that kalo, hīhīwai, ‘ōpae, o‘opu, limu, and medicinal plants are specifically identified here.

5.2 Approach to Assessing Impacts

Using the information gathered through archival research, oral history interviews, and reports containing cultural consultation testimony, SWCA identified cultural resources, including traditional and customary Native Hawaiian practices, within the permit area of the Honokōhau stream diversion. This study also determined the extent to which these resources and practices will be affected or impaired by the proposed continued use of the Honokōhau stream diversion by the MDWS.

The potential impacts to traditional and customary practices extend beyond the immediate vicinity of the Honokōhau stream diversion. Activities such as lo‘i kalo farming; subsistence gathering of stream and nearshore ocean species, and the gathering of lā‘au lapa‘au from areas below the stream diversion could all be impacted by changes in freshwater availability due to the stream diversion.

Given the geographic extent of the Honokōhau Aquifer System, this report cannot definitively identify and address the full breadth of potential impacts to all cultural resources and traditional and customary practices in the areas near the Honokōhau stream diversion. Nevertheless, our research reveals that existing pressure on freshwater resources already endangers the traditional and customary practices described above. Community members expressed fears that diminished streamflow could further threaten the survival of these cultural practices.

5.3 Community Concerns

Based upon the information gathered from the community consultation effort for this Ka Pa‘akai Analysis, existing oral history interviews, and region-specific public testimony from the IFSAR meetings, the following concerns and recommendations were voiced repeatedly by the community.

5.3.1 Ahupua‘a-Based Approach

The community expressed that water needs to be managed holistically and should employ an ahupua‘a-wide approach.

5.3.1.1 CONCERNS REGARDING FOREST AND WATERSHED HEALTH

- The protection of watersheds from mauka to makai emerged as a common concern of community members.
- The most common concern voiced by community members was the need to restore and protect streamflow to irrigate lo‘i kalo.
- According to several individuals, adequate fresh water is needed to ensure the growth and regeneration of native species.
- Several community members personally observed changes in the presence and abundance of culturally important freshwater species under different stream conditions. They would like to see MDWS monitor and protect populations of culturally important native species found in streams. These include the five types of ‘o‘opu fish, the two types of crustaceans or ‘ōpae, and the two types of mollusks, hīhīwai (or wī) and hapawai.
- Community members specifically called out the need to ensure ecosystem resilience against fire hazards and climate change by protecting native forests and water resources.
- Several community members suggested bringing back the kānāwai system of water management for lo‘i kalo farming.

5.3.1.2 CONCERNS REGARDING NEARSHORE AND OCEAN RESOURCES

- A few community members personally observed changes in the presence and abundance of culturally important saltwater species under different stream conditions. They would like to see MDWS monitor and protect populations of culturally important limu species such as limu ‘ele‘ele, limu kohu, limu līpe‘e, limu līpoa, manaua, limu waiwaiiole. Other culturally important marine vertebrate species in the area include: kole, owama/oama, manini, halalu, kūmū, weke, and manō, in addition to invertebrate species such as kūpe‘e, ‘opihi, hā‘uke‘uke, wana (sea urchin), and *he‘e* (octopus).
- Informants noted that periodic water wastage from the Honokōhau ditch causes damaging influxes of warm water into reef and nearshore ecosystems.

5.3.2 Abundance and Quality of Freshwater Flow

5.3.2.1 INSUFFICIENT MONITORING AND ENFORCEMENT OF CURRENT WATER SUPPLIES

- Several individuals claim that their observations of the streamflow do not align with established instream flow standards and that they would like to see CWRM monitor actual instream flow.

- A common sentiment within the IFSAR testimony is that kalo farmers would like to see all streams restored to 100% flow. Community members called out the fact that decreasing freshwater flow resulted in increasing water temperatures, causing kalo crops to rot.
- Another frequent concern was the lack of enforcement of existing water allocations, particularly for large landowners who are perceived to receive preferential water access over kalo farmers.

5.3.2.2 AGING AND BROKEN INFRASTRUCTURE

- Aging and broken infrastructure, such as dams, gages, stream diversions, etc., came up as a major cause for concern in the community. Kalo farmers want to see responsible parties repair and maintain existing ditch infrastructure to ensure consistent streamflow.
- Several individuals also expressed frustration that the burden for clearing debris from the ditches and 'auwais all too often falls onto individual kalo farmers.

5.3.2.3 LACK OF VIABLE ALTERNATIVE WATER SUPPLIES

- Numerous community members expressed an interest in greater use of R1 water for non-potable uses.

5.3.3 *Reduced Water Quality*

- Community members observed adverse effects from runoff and sedimentation on both streams and the nearshore environment, particularly impacting culturally important species of limu.
- Reduced water quality, particularly from runoff, directly impacts community member's restoration efforts to restore and re-open lo'i kalo for the next generation.
- Certain coastal freshwater springs are also much more saline now than they were in the past, meaning community members cannot gather fresh water from them for subsistence or cultural practices.

5.3.4 *Need for Additional Community Input for Current and Future Projects*

- Potential undocumented kuleana uses may exist within the permit area that did not emerge during this research. These undocumented kuleana uses could be identified through additional community input.
- Community members may also wish to maintain access to lands for gathering, hunting, fishing, and other Native Hawaiian traditional and customary practices.

6 PROPOSED ACTIONS TO PROTECT TRADITIONAL AND CUSTOMARY NATIVE HAWAIIAN RIGHTS

Following the assessment of potential impacts associated with the proposed permit activity, SWCA and the MDWS identified a series of feasible actions that could be taken to mitigate these impacts and serve to reasonably protect and revitalize Native Hawaiian rights, traditions, and customs associated with the permit area. The feasible actions suggested here are intended to address community concerns expressed in ethnographic interviews, oral history interviews, and community consultation and testimony from the IFSAR meetings.

6.1 Apply an Ahupua‘a-Based Approach to All Water Use Decisions

Upon analyzing the findings of the community consultation, public testimony from the IFSAR meetings, and oral history interviews, it is clear that a mauka to makai approach is essential for revitalizing Native Hawaiian traditional and customary practices. The health of the upland forests directly impacts streams and aquifers, which in turn affects the nearshore environment.

- In making decisions regarding water use within the Honokōhau Aquifer System, the MDWS will employ an ahupua‘a-based approach. This involves not only taking into account the potential impacts to the lands in the immediate vicinity of the permit activity, but considering the effect of the project on the entire watershed, from the uplands to the nearshore waters, as well as the cultural practices currently being carried out within the ahupua‘a.
- As part of its community outreach efforts, the MDWS will seek to raise public awareness of ahupua‘a management practices and foster partnerships for use and management of water sources with existing community and school-based ahupua‘a restoration efforts. The Honokōhau Valley Association is one such community group engaged in the restoration of taro patches.
- As part of this ahupua‘a-based approach to water planning and management, the MDWS will work with the local community and cultural practitioners to monitor and protect both the upland watershed and the coastal marine resources.

6.1.1 *Mauka: Reforestation and Invasive Species Control to Improve Watershed Health*

The ‘Aha Moku observed that the depletion of groundwater directly impacts native vegetation in the mountains, rendering these areas vulnerable to repeat wildfires. A decline in vegetation in the mountains then impacts cloud coverage and rainfall. Invasive species often outcompete native species and also potentially use up more water than native species. Invasive grasses are particularly vulnerable to wildfires.

- Maui County will continue financial support for watershed management partnerships designed to improve groundwater recharge, reduce fire hazards, and prevent erosion through native species reforestation, invasive species control, fencing, and weed eradication efforts.

- The MDWS will support watershed partnerships' outreach to West Maui schools to develop service-learning experiences that allow students to assist with invasive species control and the planting of native species.

6.1.2 Makai: Monitoring Culturally Important Aquatic Species

A number of community members observed local declines in culturally important stream, nearshore, and marine species since the 1970s, when the County began to drill wells and also when Pioneer Mill Company sold its water management infrastructure to West Maui Land.

- CWRM and the UH Water Resources Research Center should consider developing, coordinating, and funding a region-wide system for inventorying and monitoring culturally important native aquatic species such as fish, limu, mollusks, and shrimp that may be affected by and are indicators of changing water supply. They should partner with community organizations like Honokōhau Valley Association, Kamehameha Schools, 'Aha Moku o Maui, Inc., cultural practitioners, and other relevant NHOs in these endeavors.
- The MDWS will support and fund inventorying and monitoring of culturally important native species conducted by watershed partnerships in watersheds directly impacted by the MDWS's existing water sources.

6.2 Protect and Recharge Groundwater and Surface Water Flow

6.2.1 Maintaining and Monitoring Current Water Supplies

The availability of fresh water to irrigate lo'i kalo emerged as the most common concern among community members when discussing surface water issues. To ensure sufficient streamflow to irrigate lo'i kalo, the MDWS will:

- Work with the State CWRM to ensure that existing instream flow standards are being met. In those cases where existing instream flow standards are not feasible due to the limitations of existing wells, the MDWS will work with CWRM to develop alternate strategies to ensure adequate water supplies.
- Monitor and enforce current water use restrictions by all existing users in a water shortage.

6.2.2 Alternative Water Source Strategies

Many community members expressed interest in alternative water strategies such as recycling greywater (R1) to be used for landscaping and other non-potable uses. To this end, the MDWS will:

- Support capital improvement program funding for recycled water projects and needed infrastructure expansion in the Lahaina region to offset potable water to the maximum extent feasible.
- Support exploration and permitting of greywater systems to offset potable water use.
- Explore desalination of seawater and brackish water as an alternative water supply for West Maui demand.

6.3 Support Water Quality

Several community members noticed that a decline in water quality impacts limu populations. To combat water quality issues, the MDWS will:

- Encourage the State Department of Health and Maui County to focus cesspool upgrades to areas impacting the nearshore marine environment and prioritize expanding sewer lines into residential areas that are currently unsewered to reduce the amount of wastewater entering the aquifer and nearshore environment.

6.4 Repair, Replace, and Maintain Existing Infrastructure

Community members indicated that the plantation-era ditches contain aging infrastructure. Since Pioneer Mill Company shut down, no one regularly maintains blockages upstream that could be the cause of reduced stream flow. Community members sometimes personally remove debris build-up in the ditches and 'auwais, but they feel that they should not be personally responsible for maintaining these systems. They also feel that the County and the State should be responsible for ensuring that these systems will continue to function in the event of "100-year storms." The MDWS will do its part to ensure proper infrastructure functioning by:

- Continuing to repair and maintain existing gages, pumps, 'auwais, dams, and other infrastructure that is controlled by MDWS to ensure efficient water supply and avoid wastage.
- Work with Maui Land & Pine to regularly maintain the Honokōhau stream diversion.

6.5 Solicit Ongoing Community Input for Current and Future Projects

Members of 'Aha Moku stated that many community members have a stake in water use decisions, and recommend regular venues for them to share their mana'o. Therefore, the MDWS should:

- Hold annual meetings with community groups, cultural practitioners, lineal and cultural descendants of the area, and other interested community members to encourage ongoing cooperation and consultation regarding MDWS projects.
- Consult with 'Aha Moku for water development projects in the subject moku for information on impacts to Native Hawaiian traditional and customary uses and advice on proper actions.
- Promote existing MDWS grant programs by proactively advertising in venues such as social media, in OHA's *Ka Wai Ola* magazine, and in local newspapers.

7 SUMMARY

The Native Hawaiian worldview recognizes that managing water resources requires a comprehensive and unified approach. It emphasizes the idea that we cannot address water issues separately, but instead need to consider them as interconnected and interdependent. Additionally, it is not enough to ensure the *survival* of traditional and customary practices in the existing permit area; instead, all feasible efforts should be made to allow these practices to *thrive*. The natural and cultural resources at the basis of these traditional and customary practices must be sufficiently healthy to allow cultural practitioners to perpetuate these practices by passing them on to future generations.

Using a combination of archival research, existing oral history interviews, and public testimony from the Instream Flow Standard Assessment Report (IFSAR) meetings, this Ka Pa‘akai Analysis report identified and discussed the traditional and customary practices undertaken within the Lahaina Aquifer Sector, and more specifically within the Honokōhau Aquifer System, that are related to water use and could potentially be impacted by water use related to the existing Honokōhau Stream diversion. These traditional and customary practices include the cultivation of wetland kalo, near-shore fishing, the gathering of limu, and the gathering of medicinal and other plants. Traditional and customary practices such as gathering lā‘ua lapa‘au, lo‘i kalo cultivation, and gathering riparian species such as ‘o‘opu, ‘ōpae, the shellfish hīhīwai and hapawai all declined dramatically in the area due to decades of commercial pineapple and sugar cane cultivation. In spite of this, cultural practitioners continue to farm lo‘i kalo and fish in the areas makai of the Honokōhau Ditch. Cultural practitioners are currently increasing the number of lo‘i kalo under active cultivation and teaching keiki (children) and community members about mauka to makai stewardship, all of which require a sufficient availability of fresh water.

Historical accounts describe Honokōhau Valley as one of the most productive regions for kalo cultivation on the entire island of Maui, rivalled only by Kahakuloa. However, commercial agriculture during the plantation era led to a dramatic decline in the active cultivation of lo‘i kalo within Honokōhau. Plateau lands, formerly planted in ‘uala, were converted into sugarcane and pineapple fields, and the Honokōhau Stream was diverted into the Honokōhau Ditch.

In existing oral history interviews and public testimony, several narrators expressed their belief that the existing Honokōhau Stream diversion directly impacts freshwater availability for lo‘i kalocultivation. Cultural informants also noticed a decline in key, culturally important natural resources such as ‘o‘opu, ‘ōpae, the shellfish hīhīwai and hapawai, limu, and nearshore fish since the stream diversion was installed. The Honokōhau Stream surfacewater diversion, paired with the ecological disturbances from legacy sugarcane and pineapple fields, led to cascading effects on the natural environment. These effects include a decrease in water availability for irrigating lo‘i kalo, as well as silt, pesticide, and fertilizer runoff that damages the reefs. Additionally, the disruption of mauka to makai connectivity for ‘o‘opu and ‘ōpae, and an influx of invasive plant and animal species in the mauka areas leading to increased fire risk, which in turn reduced aquifer replenishment.

This Ka Pa‘akai Analysis found that the Honokōhau Stream diversion contributes to an overall reduction of freshwater that impacts the vitality of ongoing traditional and customary practices. The Maui County Department of Water Supply has therefore agreed to undertake a number of feasible actions to maintain and potentially increase supplies of freshwater for traditional and customary practices. This Ka Pa‘akai Analysis identified a number of feasible actions to help mitigate the potential impacts of the existing stream diversion. These include soliciting ongoing feedback from community members; employing a mauka to makai approach to water conservation; supporting community-based efforts to restore

watersheds; repairing, replacing, and maintaining existing infrastructure; maintaining and monitoring water quality; and developing alternative water source strategies.

8 GLOSSARY OF HAWAIIAN WORDS USED IN THE TEXT

<i>a‘ali‘i</i>	a common, small dryland and mesic forest tree, <i>Dodonaea viscosa</i>
<i>ahupua‘a</i>	traditional land division usually extending from the mountains to the sea and encompassing a range of environmental zones that were known and used by the land’s early Hawaiian residents. It was “so called because the boundary was marked by a heap (ahu) of stones surmounted by an image of a pig (pua‘a), or because a pig or other tribute was laid on the altar as tax to the chief” (Pukui and Elbert 1971:8).
<i>‘āina</i>	land
<i>‘ākia</i>	an important sub shrub to small tree, <i>Wikstroemia oahuensis</i> var. <i>oahuensis</i> , sometimes used to stun fish
<i>‘akoko</i>	a term for native herbs, sub-shrubs, or shrubs in the genus <i>Euphorbia</i> ; in this case, <i>Euphorbia celastroides</i> var. <i>lorifoli</i>
<i>alahe‘e</i>	a native forest tree known for its sweet-smelling flowers, <i>Psydrax odorata</i>
<i>ala loa</i>	main road or trail
<i>ali‘i</i>	chief, individual of chiefly blood
<i>‘auwai</i>	ditch, canal
<i>‘ēkaha</i>	a native forest fern, <i>Asplenium nidus</i>
<i>halalu</i>	young akule, <i>Trachurops crumenophthalmus</i>
<i>hanawai</i>	irrigation
<i>hapawai</i>	a shellfish, <i>Theodoxus vespertinus</i>
<i>hā‘uke‘uke</i>	a type of edible sea urchin; <i>Colobocentrotus atratus</i>
<i>heiau</i>	traditional temple or shrine
<i>hīhīwai</i>	an endemic, edible, freshwater and brackish grainy snail, <i>Neritina granosa</i> ; also known as wī if in fresh water; there is a shellfish of the same name
<i>hō‘ailona</i>	sign, symbol
<i>huehue</i>	a native vine, <i>Cocculus orbiculatus</i> , used for twine and funnel-mouthed fish traps
<i>‘ili</i>	traditional land division, smaller in size and next in importance to an ahupua‘a, usually a subdivision of an ahupua‘a
<i>‘iliahialo‘e</i>	coastal sandalwood, <i>Santalum ellipticum</i>
<i>iwi kupuna</i>	ancestral remains

<i>kā'ape'ape</i>	a native holly fern, <i>Cyrtomium caryotideum</i>
<i>kalana</i>	a land division smaller than a moku; a county
<i>kalo</i>	taro, <i>Colocasia esculenta</i>
<i>keiki</i>	children
<i>kīlau</i>	a native bracken fern, <i>Pteridium aquilinum</i> ssp. <i>Decompositum</i>
<i>koali 'awahia and 'awa</i>	beach morning glory, <i>Ipomoea indica</i> , used for medicine and cordage
<i>kole</i>	surgeonfish, <i>Ctenochaetus strigosus</i>
<i>kolokolo</i>	a small, tongue-like native fern, <i>Adenophorus tenellus</i>
<i>konohiki</i>	land stewards, sometimes minor ali'i
<i>kuahiwi</i>	mountain
<i>kula</i>	plain or open country
<i>kūmū</i>	goatfish; <i>Parupeneus porphyreus</i>
<i>kūpe'e</i>	an edible marine snail; <i>Nerita polita</i>
<i>lālākea</i>	whitetip shark, <i>Pterolamiops longimanus</i>
<i>limu</i>	marine and freshwater algae
<i>limu 'ele'ele</i>	<i>Enteromorpha prolifera</i>
<i>limu kohu</i>	<i>Asparagopsis taxiformis</i>
<i>limu līpe'e</i>	<i>Laurencia</i> sp.
<i>limu līpoa</i>	<i>Dictyopteris pagiogramm</i> and <i>D. australis</i>
<i>limu manauea</i>	<i>Gracilaria coronopifolia</i>
<i>limu wāwae'iole</i>	<i>Codium edule</i>
<i>lo 'i kalo</i>	flooded taro terraces
<i>maka'āinana</i>	common people
<i>makai</i>	toward the sea
<i>manini</i>	a common reef surgeonfish; <i>Acanthurus triostegus</i>
<i>manō</i>	shark
<i>moa</i>	whisk fern, not a true fern; a seedless non-vascular native plant, <i>Psilotum nudum</i>

<i>moano</i>	goatfish; <i>Parupeneus multifasciatus</i>
<i>moelua</i>	weke 'ula; <i>Mulloidichthys vanicolensis</i>
<i>moku</i>	district, land section, or island
<i>mo 'o</i>	water spirit or lizard goddess
<i>mo 'okū 'auhau</i>	genealogy
<i>mo 'olelo</i>	story, tradition, legend, history
<i>mo 'o 'āina</i>	a parcel of land, smaller than an ili, and typically used in agriculture
<i>mauka</i>	inland
<i>nehu</i>	anchovies, <i>Stolephorus purpureus</i>
<i>ogo</i>	a limu; <i>Gracilaria parvisipora</i> , sometimes also called manaua
<i>'ōhi 'a 'ai</i>	mountain apple tree, <i>Eugenia malaccensis</i>
<i>'ōhi 'a lehua</i>	<i>Meterosideros</i> sp., often polymorpha; an iconic Native Forest tree with beautiful red flowers
<i>'ō 'io</i>	ladyfish/bonefish, <i>Albula vulpes</i>
<i>'ōlelo no 'eau</i>	traditional Hawaiian proverbs and poetical sayings
<i>'opihi</i>	limpets; <i>Cellana talcosa</i> , <i>C. sandwicensis</i> , <i>C. exarata</i> , and <i>C. melanostoma</i> .
<i>'o 'opu</i>	refers to species of fish in the families Eleotridae, Gobiidae, and Blennidae
<i>'o 'opu 'akupa</i>	<i>Eleotris sandwicensis</i>
<i>'opu 'alamo 'o</i>	<i>Lentipes concolor</i>
<i>'o 'opu nākea</i>	<i>Awaous guamensis</i>
<i>'opu naniha</i>	<i>Stenogobius hawaiiensis</i>
<i>'o 'opu nōpili</i>	<i>Sicyopterus stimpsoni</i>
<i>'ōpae</i>	endemic shrimp
<i>'ōpae kuahiwi/kala 'ole</i>	<i>Atyoida bisulcata</i>
<i>'ōpae 'oeha</i>	<i>Macrobrachium grandimamus</i>
<i>'ōpelu</i>	Mackerel scad, <i>Decapterus macarellus</i> , <i>pinnulatus</i> and/or <i>D. maruads</i>
<i>'ōpelu kala</i>	a kala fish staying with 'ōpula schools; <i>Naso hexacanthus</i>
<i>owama/oama</i>	young weke or goatfish

<i>pa'akai</i>	sea salt
<i>pala'ā lei</i>	a beautiful, culturally important fern, <i>Sphenomeris chinensis</i> ; used as offerings, medicine,
<i>palapalai</i> plant in hula	a beautiful, culturally important fern, <i>Microlepia strigosa</i> var. <i>strigose</i> ; an important
<i>pāpio</i>	the youngest stage of 'ulua
<i>po'e</i>	people, population; plural marker
<i>pūkiawe</i>	a native medicinal shrub whose wood was used for tattooing, <i>Leptecophylla tameiameia</i>
<i>'uala</i>	sweet potato; <i>Ipomoea batatas</i>
<i>'uhaloa</i>	a medicinal plant; <i>Waltheria indica</i>
<i>'ūlei</i>	a native spreading shrub, <i>Osteomeles anthyllidifolia</i> , used for digging sticks, musical instruments, and fishing spears
<i>'ulua</i>	carangids; the adult stage of certain species of fish such as Giant Trevally, crevalle, jack, or pompano, in the family of Carangidae
<i>wai</i>	fresh water
<i>wana</i>	long-spined sea urchins; possibly <i>Diadema paucispinum</i> or <i>Echinothrix diadema</i>
<i>weke</i>	certain species of the Mullidae, surmullets or goatfish. All weke have large scales and are usually found in reefs, sometimes in deep water

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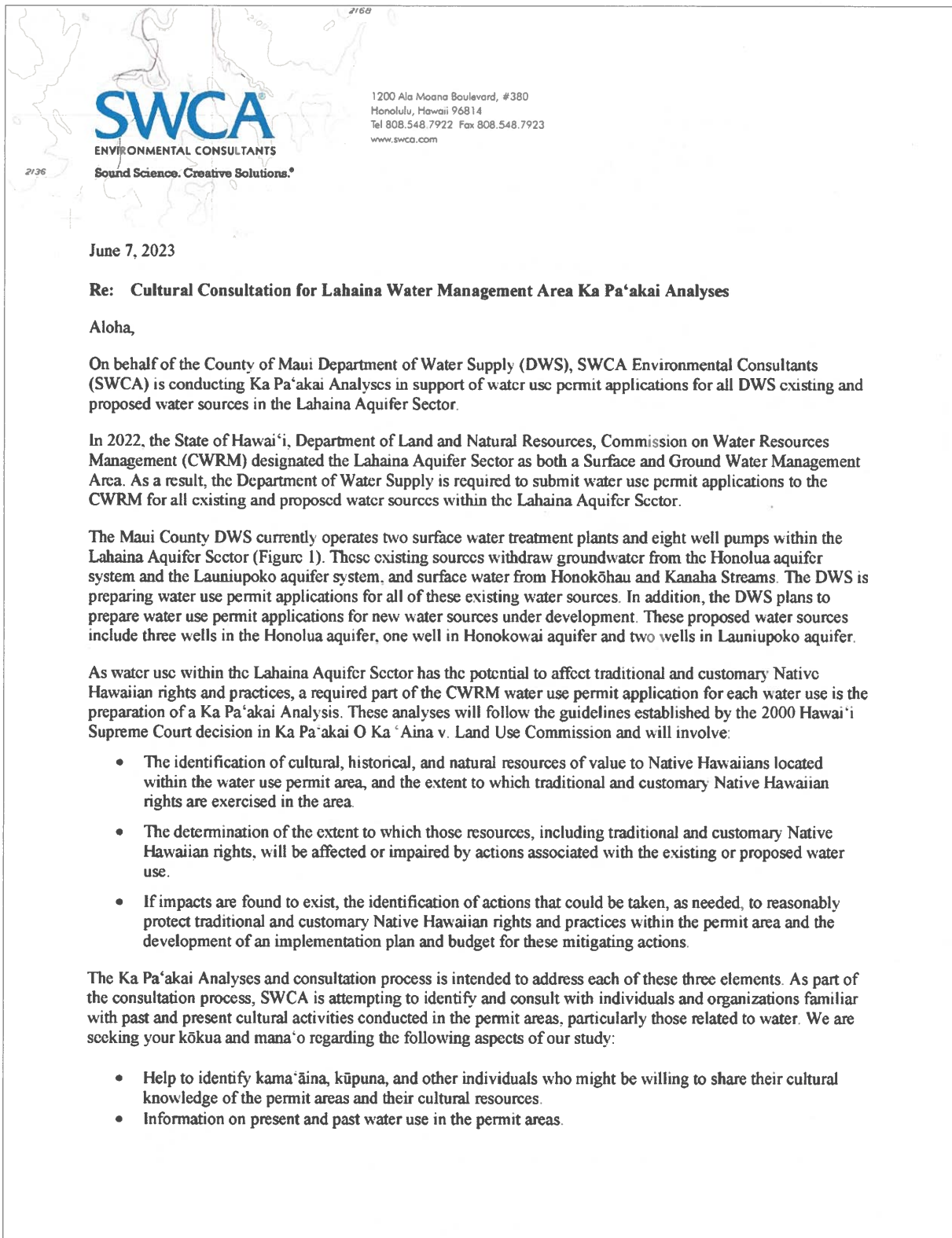
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Appendix A

Request for Consultation Letter



June 7, 2023

Re: Cultural Consultation for Lahaina Water Management Area Ka Pa'akai Analyses

Aloha,

On behalf of the County of Maui Department of Water Supply (DWS), SWCA Environmental Consultants (SWCA) is conducting Ka Pa'akai Analyses in support of water use permit applications for all DWS existing and proposed water sources in the Lahaina Aquifer Sector.

In 2022, the State of Hawai'i, Department of Land and Natural Resources, Commission on Water Resources Management (CWRM) designated the Lahaina Aquifer Sector as both a Surface and Ground Water Management Area. As a result, the Department of Water Supply is required to submit water use permit applications to the CWRM for all existing and proposed water sources within the Lahaina Aquifer Sector.

The Maui County DWS currently operates two surface water treatment plants and eight well pumps within the Lahaina Aquifer Sector (Figure 1). These existing sources withdraw groundwater from the Honolua aquifer system and the Launiupoko aquifer system, and surface water from Honokōhau and Kanaha Streams. The DWS is preparing water use permit applications for all of these existing water sources. In addition, the DWS plans to prepare water use permit applications for new water sources under development. These proposed water sources include three wells in the Honolua aquifer, one well in Honokowai aquifer and two wells in Launiupoko aquifer.

As water use within the Lahaina Aquifer Sector has the potential to affect traditional and customary Native Hawaiian rights and practices, a required part of the CWRM water use permit application for each water use is the preparation of a Ka Pa'akai Analysis. These analyses will follow the guidelines established by the 2000 Hawai'i Supreme Court decision in *Ka Pa'akai O Ka 'Aina v. Land Use Commission* and will involve:

- The identification of cultural, historical, and natural resources of value to Native Hawaiians located within the water use permit area, and the extent to which traditional and customary Native Hawaiian rights are exercised in the area.
- The determination of the extent to which those resources, including traditional and customary Native Hawaiian rights, will be affected or impaired by actions associated with the existing or proposed water use.
- If impacts are found to exist, the identification of actions that could be taken, as needed, to reasonably protect traditional and customary Native Hawaiian rights and practices within the permit area and the development of an implementation plan and budget for these mitigating actions.

The Ka Pa'akai Analyses and consultation process is intended to address each of these three elements. As part of the consultation process, SWCA is attempting to identify and consult with individuals and organizations familiar with past and present cultural activities conducted in the permit areas, particularly those related to water. We are seeking your kōkua and mana'o regarding the following aspects of our study:

- Help to identify kama'āina, kūpuna, and other individuals who might be willing to share their cultural knowledge of the permit areas and their cultural resources.
- Information on present and past water use in the permit areas.

- Information on place names and cultural traditions associated with the permit areas.
- Information on cultural resources that may be impacted by water use activities by the DWS.
- Knowledge of traditional gathering practices within the permit area, both past and ongoing.
- Information on any current cultural practices being carried out within the permit areas.
- Any other concerns the community might have related to cultural practices within or in the vicinity of the permit areas.

We appreciate any information you would be willing to share regarding the permit areas and those individuals knowledgeable about its past and present cultural uses. Please contact us at Wainani.Traub@swca.com or by phone at (808) 646-6309. We look forward to hearing from you.

Mahalo no kou kōkua 'ana mai,



Wainani Traub

Assistant Project Anthropologist

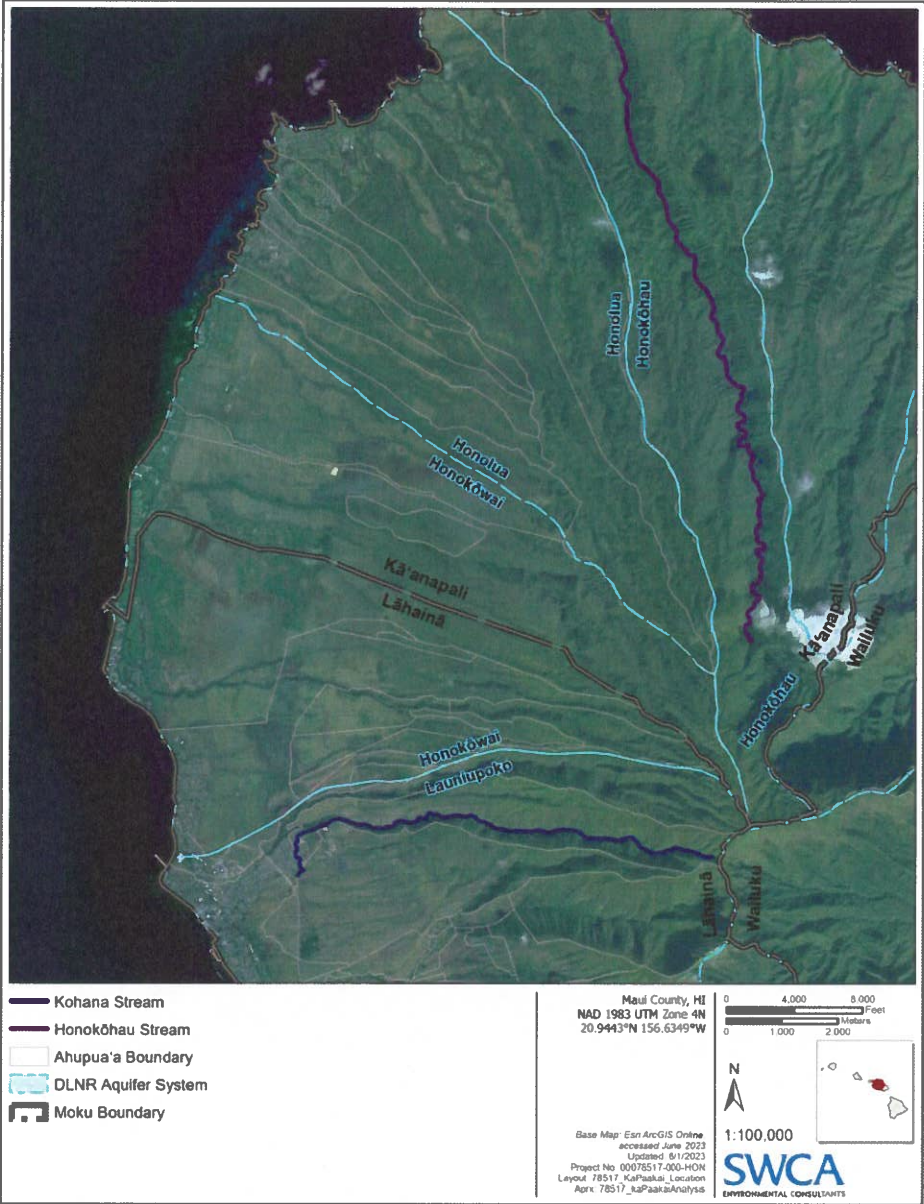


Figure 1. Lahaina Aquifer Sector

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**APPENDIX I: DEPARTMENT OF HAWAIIAN HOMELANDS DOCUMENTS
REFERENCED**

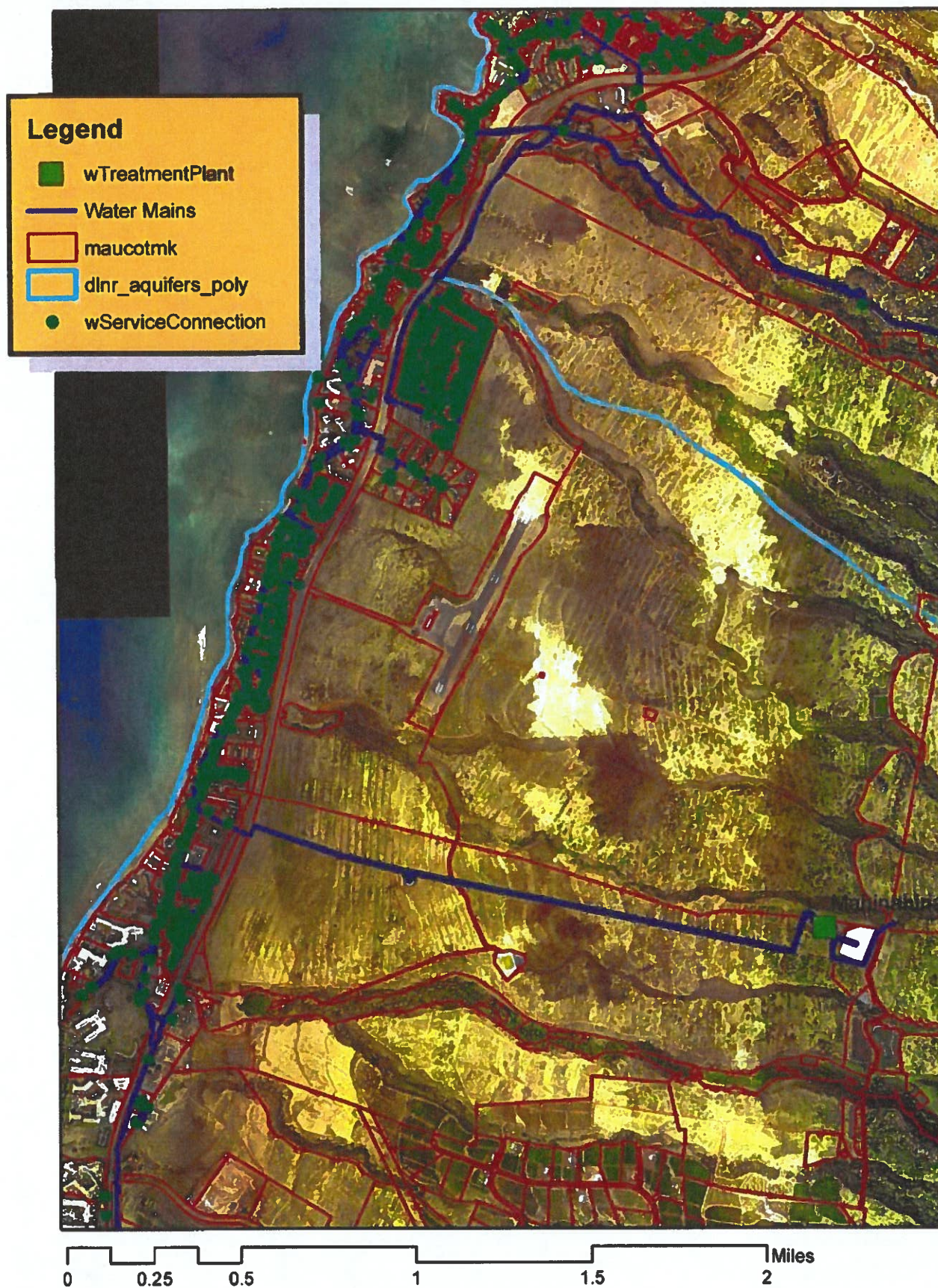
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Honokōwai Master Plan Final Environmental Assessment Anticipated Finding of No
Significant Impact (February 2022)

"By Water All Things Find Life"

APPENDIX J
MAHINAHINA RAW METER
(1 OF 2)



APPENDIX J END USE AREA (2 OF 2)



APPENDIX K

OTHER PERTINENT INFORMATION

18. EFFICIENCY

MDWS CONSERVATION PLAN

The DWS is currently in contract with a consultant to improve and make recommendations to our current DWS water conservation approach, which currently includes a number of supply-side and demand side conservation strategies. These strategies are attached and provides savings calculations from various program that are currently underway at the DWS, including programs that may work in the future. These conservation programs are considered based on the special water use contexts and behaviors of Maui residents and businesses, and includes a public outreach component which educates and provides public events to give away free high efficiency fixtures, toilets, rain barrels and irrigation system components to help home owners save water and money.

DWS Conservation Planning

The County of Maui Department of Water Supply (DWS) conducts a robust water conservation plan, which includes ongoing and planned projects that are categorized as follows:

1. Conservation Programs (CP)

- a. Toilet Replacement Program (dual-flush, ultra-high efficiency, .8/1.28 gpf) – 100% free
- b. Rain Barrel Program (Ivy 50 gal) – 100% free
- c. High efficiency fixture giveaway – 100% free
- d. Outdoor irrigation B-Hyve “smart” hose timer giveaway – 100% free

These programs and giveaways are tracked for estimated water savings and have been developed with qualifying rules and guidelines for both our customers and county citizens.

e. Watershed Protection Grants Program

This grants program has been funding highly specialized organizations who help protect and preserve the County of Maui watersheds from invasive plant and animal species that damages and endangers native Hawaiian ecosystems that critical for recharging water sources and maintaining high water quality.

f. Public outreach

Every year, the DWS runs water conservation advertisements in various media outlets, at the airport, on public transit, and participates at various public events with a booth to promote our programs, provide informational materials, free program giveaways, and speak directly to the public and answer questions about the DWS water distribution system that people are curious about. We provide information and support for both young and old to learn and participate in water conservation and to help protect our water sources.

The DWS has just concluded its 12th Annual Water Conservation Poster Contest and its 6th Annual Source Water Protection Video Contest. Over the years, these very successful contests have attracted thousands of grade school and high school participants, and allowed representatives from many different organizations to judge their creative entries. Winners and their schools have received various prizes, which aim to encourage on-going participation and curiosity about what and why water conservation is so important to their future.

Information about the DWS water conservation efforts can also be found here:

<https://waterresources.mauicounty.gov/153/Water-Conservation>

2. Conservation Capital Improvement Projects (CCIP)

As water consumption rises due to urban growth and development, water reuse is on the rise. The DWS is at the forefront of finding ways to apply this practice with maturing technology in

the public space, to help pave the way its expanded use in Maui's commercial and residential space.

a. Greywater reuse systems

The State of Hawaii's first mechanical greywater reuse system installed at Launiupoko Beach Park in Lahaina, Maui. Provides up to 3K-12K per day of reusable water for landscape irrigation, depending on patronage. 3K at 1.1MG savings per year with automatic variable production, and scalable to recycled (R-1) quality if permitted by DOH.

Another ongoing greywater project is at the Kanaha Beach Park in Kahului, Maui. This system provides up to 4-6 times the amount of savings estimated at the recently installed Launiupoko Beach Park Greywater Reuse System. It is currently in Phase 1, Design and Permitting, with Phase 2, Procurement and Construction, scheduled to begin in 2024.

b. Xeriscape outdoor landscaping demonstration project

Xeriscaping promotes native Hawaiian plant species instead of high water-intensity ornamental plants to save water, especially in drier, drought-stricken, areas of Maui. The DWS is preparing to coordinate with the Maui Nui Botanical Gardens in Kahului, Maui, to build a xeriscape demonstration project, which provides the public an opportunity to see and learn about xeriscaping in the different microclimates of Maui.

3. Conservation Strategies (CS)

The DWS continues to investigate other feasible options to save water. These potential options include physical improvements and policy changes that are being explored:

- A Bill for a Water Conservation Ordinance (working draft)
- Xeriscape Improvements (physical incentives via rebate)
- Ordinances New Build (with indoor & outdoor LEED)
- More Efficient Agricultural Irrigation Management
- Actionable Drought & Climate Change Incentives
- Public Outreach to HOAs on Xeriscaping (technical support)
- LEED Water Efficiency Incentive Program (Materials for Residential and Commercial/Resorts)
- Grey Water Residential Program
- SMART Irrigation Controller (zoned irrigation with sprinklers)
- Neighborhood Greywater System Pilot (Centralized Reuse Treatment System)
- Department of Parks and Recreation Irrigation Efficiency Program (30% reduction)
- Commercial Greywater Reuse Pilot (Hotels and Businesses Irrigation)
- Condominium Complex Greywater System Pilot (Bathrooms/Showers/Laundry)
- Large Catchment System for Upcountry and Hana Residents (irrigation and garden)

The County of Maui Department of Water Supply
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Water Resources and Planning Division

- Hot Water Recirculators Program
- Residential Laundry to Landscape
- New Build Reuse Systems
- Pool Cover Program
- Hotel Efficient HVAC Program (Laundry to cooling towers)
- New Home Buyer Dual Piping (greywater)
- Agriculture Water Reuse Pilot
- Commercial Laundromat Water Reuse
- Agritecture: Urban and peri-urban horticulture, micro-gardens, hydroponics
- Water audit on all County facilities
- County Properties High Efficiency Fixtures Retrofitting (i.e. Schools and Office)

4. Supply-Side Intervention Strategies (SSIS)

There are several ways that the DWS continues to find ways to conserve water and make its operations more efficient:

a. Water auditing

Under Act 169, SLH 2016, the DWS has completed all mandatory yearly utility water audits that were validated by the Commission of Water Resources Management (CWRM).

b. Leak Detection Program

The DWS has an evolving leak detection program that aims to reduce non-revenue water loss and to help target priority water distribution infrastructure maintenance improvements.

c. Meter Replacement Program

For the past several years, aging service meters have been replaced throughout the DWS service subsystems. This program is also helping DWS and its customers better track usage to reduce water losses faster and more efficiently.

d. Re-using Production Water

The DWS is improving its ability to reuse production water by sending it back to its headworks.

e. Hydraulic Model

In 2023, the DWS will be contracting with a consultant to develop its hydraulic model to assist in estimating and modeling water levels, pressures, flows and velocities in its water distribution system.

f. PRV replacement and pressure monitoring

The DWS continues to improve its awareness to properly adjust PRVs and how to better monitor them to find optimal pressures to reduce water loss.

**The County of Maui Department of Water Supply
Water Conservation
Water Resources and Planning Division**

g. District submetering and master metering

The DWs is exploring ways to better track and analyze water consumption throughout its water distribution systems through district and master metering options.