

CHLORIDES (PPM) FOR KONA WELLS
 SAMPLING PERIOD: JANUARY - MARCH 2008

WELL NAME	WELL ID	PUMP GPM	01/09/08	01/10/08	01/11/08	01/14/08	02/06/08	02/07/08	02/08/08	03/11/08	03/12/08	03/13/08	03/17/08
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KAHALU'U WELLS

"A"	3557-01	700						62.0		98.0			
"B"	3557-02	700	190.0					190.0		190.0			
"C"	3557-03	700	36.0					17.0					19.0
"D"	3557-04	1000	157.0				190.0			169.0			

KAHALU'U SHAFT

"TOP"	3557-05	1400		280.0				320.0				290.0	
"LEFT"	3557-05	1400		130.0				130.0				170.0	
"RIGHT"	3557-05	1400		220.0				230.0				260.0	

KE'EI WELLS

"A"	2573-01	300											
"B"	2573-02	300											
"C"	2653-01	300											
"D"	2753-03			3.0				3.0		3.0			

KALAOA WELL	4358-01	300		9.0				9.0		9.0			
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HÔLUALOA WELL	3657-01	500		170.0				170.0		180.0			
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KEAHUOLŪ (QLT)	4057-01				6.0				6.0	6.0			
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HALEKI'I WELL	3155-02			4.0				3.0		4.0			
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HONOKŌHAU	4060-01			8.0				7.0		8.0			
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HUALĀLAI	4258-0			8.0				8.0		8.0			
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WAI'AHA						4.0		5.0			5.0		
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CHLORIDES (PPM) FOR KONA WELLS

SAMPLING PERIOD: APRIL - JUNE 2008

WELL NAME	WELL ID	PUMP GPM	04/15/08	04/16/08	05/07/08	05/08/08	05/09/08	05/12/08	05/14/08	06/05/08	06/09/08	06/12/08
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KAHALU'U WELLS

"A"	3557-01	700	82.0			95.0				99.0		
"B"	3557-02	700	170.0			190.0				190.0		
"C"	3557-03	700		17.0					19.0			
"D"	3557-04	1000	194.0			157.0				152.0		

KAHALU'U SHAFT

"TOP"	3557-05	1400		290.0				240.0				230.0
"LEFT"	3557-05	1400		220.0				120.0				140.0
"RIGHT"	3557-05	1400		270.0				180.0				220.0

KE'EI WELLS

"A"	2573-01	300										
"B"	2573-02	300										
"C"	2653-01	300										
"D"	2753-03		4.0			3.0				4.0		

KALAOA WELL	4358-01	300	9.0		9.0					10.0		
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HŌLUALOA WELL	3657-01	500	170.0		170.0					150.0		
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KEAHUOLŪ (QLT)	4057-01		6.0				5.0			7.0		
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HALEKI'I WELL	3155-02		4.0			3.0				5.0		
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HONOKŌHAU	4060-01			8.0	8.0					9.0		
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HUALĀLAI	4258-0		9.0		9.0					9.0		
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WAI'AHA				5.0			5.0				6.0	
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CHLORIDES (PPM) FOR KONA WELLS
SAMPLING PERIOD: OCTOBER-DECEMBER 2008

WELL NAME	WELL ID	PUMP GPM	10/16/08	10/17/08	11/07/08	11/09/08	12/04/08
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KAHALU'U WELLS

"A"	3557-01	700	93.0			57.0	75.0
"B"	3557-02	700	190.0		180.0		180.0
"C"	3557-03	700					
"D"	3557-04	1000	175.0		158.0		166.0

KAHALU'U SHAFT

"TOP"	3557-05	1400	310.0			330.0	330.0
"LEFT"	3557-05	1400	150.0		170.0		150.0
"RIGHT"	3557-05	1400	260.0		270.0		290.0

KE'EI WELLS

"A"	2573-01	300	320.0				
"B"	2573-02	300					
"C"	2653-01	300	65.0				
"D"	2753-03				4.0		4.0

KALAOA WELL	4358-01	300	7.0		9.0		8.0
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HÖLUALOA WELL	3657-01	500		160.0	160.0		170.0
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KEAHUOLŪ (QLT)	4057-01		5.0		6.0		6.0
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HALEKI'I WELL	3155-02		4.0		5.0		5.0
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HONOKŌHAU	4060-01		6.0		8.0		8.0
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HUALĀLAI	4258-0		7.0		9.0		8.0
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WAI'AHA							
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CHLORIDES (PPM) FOR KONA WELLS

SAMPLING PERIOD: APRIL - JUNE 2009

WELL NAME	WELL ID	PUMP GPM	04/07/09	04/13/09	04/27/09	05/08/09	05/11/09	05/13/09	06/05/09	06/08/09	06/09/09	06/12/09
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KAHALU'U WELLS

"A"	3557-01	700		44.0			90.0		95.0			
"B"	3557-02	700	200.0			200.0			200.0			
"C"	3557-03	700	66.0			57.0			44.0			
"D"	3557-04	1000	162.0			154.0			156.0			

KAHALU'U SHAFT

"TOP"	3557-05	1400		250.0			290.0		300.0*			
"LEFT"	3557-05	1400		120.0			130.0					
"RIGHT"	3557-05	1400		250.0			240.0					

KE'EI WELLS

"A"	2573-01	300										
"B"	2573-02	300										
"C"	2653-01	300										
"D"	2753-03		4.0			4.0			3.0			

KALAOA WELL	4358-01	300			8.0	9.0					8.0	
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HŌLUALOA WELL	3657-01	500	160.0			170.0			180.0			
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KEAHUOLŪ (QLT)	4057-01		6.0			6.0				5.0		
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HALEKI'I WELL	3155-02		4.0			4.0			4.0			
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HONOKŌHAU	4060-01		7.0			8.0			7.0			
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HUALĀLAI	4258-0		8.0			8.0			8.0			
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WAI'AHA				5.0				5.0				5.0
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*Date taken unknown

CHLORIDES (PPM) FOR KONA WELLS
 SAMPLING PERIOD: JULY - SEPTEMBER 2009

WELL NAME	WELL ID	PUMP GPM	07/13/09	07/16/09	07/20/09	07/23/09	08/10/09	08/11/09	08/12/09	09/08/09	09/09/09	09/11/09
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KAHALU'U WELLS

"A"	3557-01	700	117.0						45.0	70.0		
"B"	3557-02	700					180.0			200.0		
"C"	3557-03	700		76.0			31.0			32.0		
"D"	3557-04	1000	164.0				165.0			172.0		

KAHALU'U SHAFT

"TOP"	3557-05	1400				340.0	340.0					340.0
"LEFT"	3557-05	1400					160.0					160.0
"RIGHT"	3557-05	1400					260.0					290.0

KE'EI WELLS

"A"	2573-01	300										
"B"	2573-02	300										
"C"	2653-01	300										
"D"	2753-03		3.0					3.0			3.0	

KALAOA WELL	4358-01	300	8.0				8.0			8.0		
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HÖLUALOA WELL	3657-01	500	160.0				160.0			160.0		
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KEAHUOLŪ (QLT)	4057-01				5.0		5.0			6.0		
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HALEKI'I WELL	3155-02		4.0				4.0			4.0		
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HONOKŌHAU	4060-01		7.0				7.0			8.0		
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HUALĀLAI	4258-0		8.0				8.0			8.0		
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WAI'AHA					5.0			5.0		5.0		
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CHLORIDES (PPM) FOR KONA WELLS
 SAMPLING PERIOD: OCTOBER-DECEMBER 2009

WELL NAME	WELL ID	PUMP GPM	10/13/09	10/15/09	10/16/09	10/30/09	11/03/09	11/06/09	11/13/09	11/16/09	12/09/09
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KAHALU'U WELLS

"A"	3557-01	700	57.0						52.0		74.0
"B"	3557-02	700	190.0					190.0			190.0
"C"	3557-03	700	19.0						17.0		26.0
"D"	3557-04	1000	155.0					174.0			153.0

KAHALU'U SHAFT

"TOP"	3557-05	1400			320.0		330.0				
"LEFT"	3557-05	1400			150.0		150.0				
"RIGHT"	3557-05	1400			280.0		230.0				

KE'EI WELLS

"A"	2573-01	300									
"B"	2573-02	300									
"C"	2653-01	300									
"D"	2753-03		3.0					3.0			3.0

KALAOA WELL	4358-01	300	8.0					9.0			9.0
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HÖLUALOA WELL	3657-01	500	210.0								
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KEAHUOLŪ (QLT)	4057-01		5.0					6.0			6.0
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HALEKI'I WELL	3155-02		4.0					4.0			4.0
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HONOKŌHAU	4060-01		7.0					7.0			8.0
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HUALĀLAI	4258-0		8.0					8.0			8.0
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WAI'AHA						4.0				5.0	5.0
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CHLORIDES (PPM) FOR KONA WELLS
 SAMPLING PERIOD: JANUARY - MARCH 2010

WELL NAME	WELL ID	PUMP GPM	01/20/10	01/22/10	01/24/10	02/04/10	02/05/10	03/17/10	03/18/10	03/19/10	03/21/10
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KAHALU'U WELLS

"A"	3557-01	700	92.0			119.0		129.0			
"B"	3557-02	700	200.0					190.0			
"C"	3557-03	700	37.0			79.0		98.0			
"D"	3557-04	1000	170.0			170.0					

KAHALU'U SHAFT

"TOP"	3557-05	1400		350.0			360.0		310.0		
"LEFT"	3557-05	1400		180.0			160.0		150.0		
"RIGHT"	3557-05	1400		280.0			290.0		250.0		

KE'EI WELLS

"A"	2573-01	300									
"B"	2573-02	300									
"C"	2653-01	300									
"D"	2753-03		3.0			4.0					4.0

KALAOA WELL	4358-01	300	8.0			9.0		10.0			
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HŌLUALOA WELL	3657-01	500									
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KEAHUOLŪ (QLT)	4057-01		5.0			6.0		7.0			
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HALEKI'I WELL	3155-02		4.0			4.0		4.0			
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HONOKŌHAU	4060-01		8.0			7.0		8.0			
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HUALĀLAI	4258-0		8.0			8.0		9.0			
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WAI'AHA					5.0	5.0				5.0	
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CHLORIDES (PPM) FOR KONA WELLS
SAMPLING PERIOD: APRIL - JUNE 2010

WELL NAME	WELL ID	PUMP GPM	04/07/10	04/09/10	04/11/10	05/05/10	05/06/10	06/14/10	06/28/10
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KAHALU'U WELLS

"A"	3557-01	700	131.0			108.0		157.0	
"B"	3557-02	700	190.0			180.0		170.0	
"C"	3557-03	700	113.0			113.0		118.0	
"D"	3557-04	1000							

KAHALU'U SHAFT

"TOP"	3557-05	1400		320.0			270.0		300.0
"LEFT"	3557-05	1400		150.0			160.0		170.0
"RIGHT"	3557-05	1400		310.0			220.0		280.0

KE'EI WELLS

"A"	2573-01	300							330.0
"B"	2573-02	300							
"C"	2653-01	300							58
"D"	2753-03				4.0	3.0		4.0	

KALAOA WELL	4358-01	300	9.0			9.0		10.0	
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HÖLUALOA WELL	3657-01	500							
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KEAHUOLŪ (QLT)	4057-01		6.0			6.0		6.0	
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HALEKI'I WELL	3155-02		5.0			4.0		4.0	
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HONOKŌHAU	4060-01		9.0			8.0		8.0	
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HUALĀLAI	4258-0		9.0			9.0		8.0	
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WAI'AHA			5.0			6.0		6.0	
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CHLORIDES (PPM) FOR KONA WELLS

SAMPLING PERIOD: JULY - SEPTEMBER 2010

WELL NAME	WELL ID	PUMP GPM	07/09/10	07/12/10	08/24/10	08/25/10	08/26/10	09/08/10	09/09/10
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KAHALU'U WELLS

"A"	3557-01	700		125.0		97.0		205.0	
"B"	3557-02	700		170.0		160.0		150.0	
"C"	3557-03	700		133.0		116.0			35.0
"D"	3557-04	1000							

KAHALU'U SHAFT

"TOP"	3557-05	1400	260.0		230.0				220.0
"LEFT"	3557-05	1400	190.0		160.0				120.0
"RIGHT"	3557-05	1400	210.0		190.0				180.0

KE'EI WELLS

"A"	2573-01	300		310.0					
"B"	2573-02	300							
"C"	2653-01	300		54.0					
"D"	2753-03			4.0		4.0		24.0	

KALAOA WELL	4358-01	300		10.0		9.0			9.0
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HÖLUALOA WELL	3657-01	500							
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KEAHUOLŪ (QLT)	4057-01			7.0		6.0			6.0
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HALEKI'I WELL	3155-02			5.0		4.0		5.0	
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HONOKŌHAU	4060-01			9.0		8.0			8.0
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HUALĀLAI	4258-0			9.0		9.0			3.0
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WAI'ĀHA				6.0			5.0		10.0
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CHLORIDES (PPM) FOR KONA WELLS
SAMPLING PERIOD: OCTOBER-DECEMBER 2010

WELL NAME	WELL ID	PUMP GPM	10/27/10	11/10/10	11/12/10	11/15/10	11/16/10	12/08/10	12/13/10
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KAHALU'U WELLS

"A"	3557-01	700	168.0	108.0				114.0	
"B"	3557-02	700	160.0	170.0				190.0	
"C"	3557-03	700	73.0		34.0			35.0	
"D"	3557-04	1000		169.0				210.0	

KAHALU'U SHAFT

"TOP"	3557-05	1400	310.0				290.0	290.0	
"LEFT"	3557-05	1400	180.0				140.0	180.0	
"RIGHT"	3557-05	1400	200.0				240.0	250.0	

KE'EI WELLS

"A"	2573-01	300							
"B"	2573-02	300							
"C"	2653-01	300							
"D"	2753-03		3.0	3.0				3.0	

KALAOA WELL	4358-01	300	8.0	10.0				9.0	
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HÖLUALOA WELL	3657-01	500							100.0
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KEAHUOLŪ (QLT)	4057-01		5.0	5.0				6.0	
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HALEKI'I WELL	3155-02		4.0	3.0				4.0	
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HONOKŌHAU	4060-01		7.0	8.0				7.0	
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HUALĀLAI	4258-0		8.0	8.0				8.0	
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WAI'AHA			4.0			5.0		4.0	
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CHLORIDES (PPM) FOR KONA WELLS
 SAMPLING PERIOD: JANUARY - MARCH 2011

<u>WELL NAME</u>	<u>WELL ID</u>	<u>PUMP GPM</u>	<u>01/05/11</u>	<u>01/10/11</u>	<u>01/25/11</u>	<u>02/03/11</u>	<u>02/07/11</u>	<u>03/02/11</u>	<u>03/03/11</u>	<u>03/07/11</u>
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KAHALU'U WELLS

"A"	3557-01	700	115.0			115.0		121.0		
"B"	3557-02	700	200.0			200.0		190.0		
"C"	3557-03	700	41.0				40.0			40.0
"D"	3557-04	1000	215.0			216.0		210.0		

KAHALU'U SHAFT

"TOP"	3557-05	1400		240.0			290.0		250.0	
"LEFT"	3557-05	1400		140.0			150.0		160.0	
"RIGHT"	3557-05	1400		210.0			250.0		240.0	

KE'EI WELLS

"A"	2573-01	300			470.0					
"B"	2573-02	300								
"C"	2653-01	300			47.0					
"D"	2753-03		3.0			3.0		3.0		

KALAOA WELL	4358-01	300	9.0			10.0		9.0		
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HÖLUALOA WELL	3657-01	500								
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KEAHUOLŪ (QLT)	4057-01		6.0			5.0		6.0		
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HALEKI'I WELL	3155-02		4.0			4.0		3.0		
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HONOKŌHAU	4060-01		8.0			8.0		8.0		
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HUALĀLAI	4258-0		9.0			8.0		8.0		
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WAI'AHA			5.0				5.0	5.0		
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CHLORIDES (PPM) FOR KONA WELLS
 SAMPLING PERIOD: APRIL - JUNE 2011

WELL NAME	WELL ID	PUMP GPM	04/04/11	04/07/11	04/11/11	04/13/11	05/05/11	05/06/11	05/09/11	05/16/11	06/02/11	06/03/11	06/06/11
KAHALU'U WELLS													
"A"	3557-01	700		74.0			130.0				120.0		
"B"	3557-02	700		190.0			190.0				180.0		
"C"	3557-03	700		57.0				48.0				38.0	
"D"	3557-04	1000		194.0			191.0				184.0		
KAHALU'U SHAFT													
"TOP"	3557-05	1400				200.0				210.0			240.0
"LEFT"	3557-05	1400				160.0				120.0			180.0
"RIGHT"	3557-05	1400				210.0				210.0			210.0
KE'EI WELLS													
"A"	2573-01	300	420.0										
"B"	2573-02	300											
"C"	2653-01	300	47.0										
"D"	2753-03			3.0					3.0		4.0		
KALAOA WELL	4358-01	300		9.0			9.0				9.0		
HÖLUALOA WELL	3657-01	500			90.0								
KEAHUOLŪ (QLT)	4057-01			5.0			5.0				6.0		
HALEKI'I WELL	3155-02			3.0			4.0				4.0		
HONOKŌHAU	4060-01			7.0			7.0				7.0		
HUALĀLAI	4258-0						8.0				8.0		
WAI'AHA				4.0				4.0					5.0

CHLORIDES (PPM) FOR KONA WELLS

SAMPLING PERIOD: JULY - SEPTEMBER 2011

WELL NAME	WELL ID	PUMP GPM	07/08/11	07/10/11	07/11/11	08/03/11	08/05/11	08/12/11	09/07/11	09/18/11	09/19/11
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KAHALU'U WELLS

"A"	3557-01	700		111.0		116.0			125.0		
"B"	3557-02	700		180.0		180.0			190.0		
"C"	3557-03	700		38.0		48.0			100.0		
"D"	3557-04	1000		179.0		207.0			191.0		

KAHALU'U SHAFT

"TOP"	3557-05	1400			240.0			280.0			340.0
"LEFT"	3557-05	1400			130.0			160.0			180.0
"RIGHT"	3557-05	1400			230.0			250.0			240.0

KE'EI WELLS

"A"	2573-01	300			450.0						
"B"	2573-02	300									
"C"	2653-01	300									
"D"	2753-03			3.0			3.0		4.0		

KALAOA WELL	4358-01	300	9.0			9.0			9.0		
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HÖLUALOA WELL	3657-01	500			90.0						
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KEAHUOLŪ (QLT)	4057-01			5.0		5.0			5.0		
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HALEKI'I WELL	3155-02			4.0		3.0			4.0		
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HONOKŌHAU	4060-01			7.0		7.0			7.0		
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HUALĀLAI	4258-0		8.0			7.0					
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WAI'AHA				5.0		4.0				5.0	
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CHLORIDES (PPM) FOR KONA WELLS
 SAMPLING PERIOD: OCTOBER-DECEMBER 2011

WELL NAME	WELL ID	PUMP GPM	10/06/11	10/09/11	10/12/11	11/03/11	11/04/11	11/08/11	11/15/11	12/09/11	12/27/11
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KAHALU'U WELLS

"A"	3557-01	700	139.0			153.0				168.0	
"B"	3557-02	700	190.0			170.0				150.0	
"C"	3557-03	700	84.0			92.0				95.0	
"D"	3557-04	1000	196.0								

KAHALU'U SHAFT

"TOP"	3557-05	1400	270.0						360.0		390.0
"LEFT"	3557-05	1400	210.0								
"RIGHT"	3557-05	1400	190.0								

KE'EI WELLS

"A"	2573-01	300									
"B"	2573-02	300									
"C"	2653-01	300									
"D"	2753-03			3.0		3.0				3.0	

KALAOA WELL	4358-01	300	8.0			8.0				8.0	
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HÖLUALOA WELL	3657-01	500								120.0	
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KEAHUOLŪ (QLT)	4057-01		5.0				5.0			5.0	
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HALEKI'I WELL	3155-02		3.0			4.0				4.0	
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HONOKŌHAU	4060-01		7.0			7.0				7.0	
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HUALĀLAI	4258-0										
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WAI'AHA					4.0	4.0					
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KEOPU								5.0			
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CHLORIDES (PPM) FOR KONA WELLS

SAMPLING PERIOD: JANUARY - MARCH 2012

<u>WELL NAME</u>	<u>WELL ID</u>	<u>PUMP GPM</u>	<u>01/06/12</u>	<u>01/11/12</u>	<u>01/24/12</u>	<u>02/06/12</u>	<u>02/07/12</u>	<u>03/07/12</u>	<u>03/21/12</u>
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KAHALU'U WELLS

"A"	3557-01	700	141.0			164.0		173.0	
"B"	3557-02	700	150.0			150.0		150.0	
"C"	3557-03	700	86.0			97.0		104.0	
"D"	3557-04	1000							

KAHALU'U SHAFT

"TOP"	3557-05	1400		440.0		390.0			380.0
"LEFT"	3557-05	1400							
"RIGHT"	3557-05	1400							

KE'EI WELLS

"A"	2573-01	300							
"B"	2573-02	300							
"C"	2653-01	300							
"D"	2753-03		3.0			3.0		4.0	

KALAOA WELL	4358-01	300	8.0			8.0		9.0	
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HÖLUALOA WELL	3657-01	500			110.0				
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KEAHUOLŪ (QLT)	4057-01		5.0			5.0		6.0	
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HALEKI'I WELL	3155-02		3.0			3.0		4.0	
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HONOKŌHAU	4060-01		7.0			7.0		7.0	
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HUALĀLAI	4258-0								
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WAI'AHA			5.0				4.0	5.0	
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KEOPU						5.0		5.0	
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CHLORIDES (PPM) FOR KONA WELLS

SAMPLING PERIOD: APRIL - JUNE 2012

<u>WELL NAME</u>	<u>WELL ID</u>	<u>PUMP GPM</u>	<u>04/04/12</u>	<u>04/05/12</u>	<u>04/08/12</u>	<u>04/11/12</u>	<u>04/16/12</u>		
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KAHALU'U WELLS

"A"	3557-01	700	137.0						
"B"	3557-02	700	150.0						
"C"	3557-03	700		80.0					
"D"	3557-04	1000							

KAHALU'U SHAFT

"TOP"	3557-05	1400				410.0			
"LEFT"	3557-05	1400							
"RIGHT"	3557-05	1400							

KE'EI WELLS

"A"	2573-01	300	330.0						
"B"	2573-02	300							
"C"	2653-01	300	68.0						
"D"	2753-03								

KALAOA WELL	4358-01	300	8.0						
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HÖLUALOA WELL	3657-01	500					110.0		
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KEAHUOLŪ (QLT)	4057-01		5.0						
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HALEKI'I WELL	3155-02		4.0						
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HONOKŌHAU	4060-01		7.0						
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HUALĀLAI	4258-0								
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WAI'AHA					5.0				
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KEOPU					5.0				
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