

DEPARTMENT OF HAWAIIAN HOME LANDS
STATE OF HAWAII

September 24, 2014

ADDENDUM NO. 1

TO

PLANS, BID FORM, SPECIFICATIONS, CONTRACT AND BOND

FOR

CONSTRUCTION OF THE WAILUA WELL NO. 1

IFB NO.: IFB-15HHL-004

WAILUA, COUNTY OF KAUAI, HAWAII

NOTICE TO ALL PROSPECTIVE BIDDERS

This addendum is hereby made a part of the PLANS, BID FORM, SPECIFICATIONS, CONTRACT AND BOND for the CONSTRUCTION OF THE WAILUA WELL NO. 1, WAILUA, COUNTY OF KAUAI, HAWAII, and it shall amend the said contract documents as detailed within this Addendum document.

APPROVED:

Sandra Pfund, Administrator
Land Development Division

Date September 24, 2014

Please detach, execute, and return immediately, the receipt below, to the Department of Hawaiian Home Lands, P. O. Box 1879, Honolulu, HI 96805, or transmit facsimile to (808) 620-9299.

Receipt of Addendum No. 1 for the CONSTRUCTION OF THE WAILUA WELL NO. 1, WAILUA, COUNTY OF KAUAI, HAWAII, is hereby acknowledged.

Signed _____

Title _____

Firm _____

Date _____

ADDENDUM NO. 1
SEPTEMBER 24, 2014

TO

PLANS, BID FORM, SPECIFICATIONS, CONTRACT AND BOND

FOR

CONSTRUCTION OF THE WAILUA WELL NO. 1

WAILUA, COUNTY OF KAUAI, HAWAII

IFB NO.: IFB-15-HHL-012

ITEM NO. 1 PRE-BID MEETING MINUTES AND REPLIES TO QUESTIONS.

1. A mandatory Pre-bid meeting was held at the ICSD Video Conference Center; 3060 Eiwa Street, Lihue, HI 96766 on September 16, 2014 at 10:00 am. The meeting minutes and sign-in sheet are attached to ADDENDUM No. 1.

ITEM NO. 2 DHHL-WAILUA WELL #1 PROGRESS REPORT

1. The DHHL-Wailua Well #1 Progress Report is attached to ADDENDUM No. 1 for bidders information and reference.

Construction of the Wailua Well No. 1
IFB-15-HHL-012
Minutes of Pre-bid Conference and Site Inspection

Date: September 16, 2014
Time: 10:00 am
Location: ICSD Video Conference Center
3060 Eiwa Street, Lihue, HI 96766

LIST OF ATTENDEES

State of Hawaii, Department of Hawaiian Home Lands

Bill South (PH: (808) 620-9288)

Kehaulani Quartero (PH: (808) 620-9284)

Akinaka & Associates, Ltd.

Ken Kawahara (PH: (808) 836-1900, Est. 668)

David Barnes, Waimea Water Services (PH: (808) 885-5941)

INTRODUCTION

Bill South, DHHL call the meeting to order and welcomed everyone to the pre-bid conference. Bill introduced the attendees from DHHL and Akinaka & Associates. He also introduced our Kauai District Office Manager Erna Kamibayashi (who was not present) and relayed her contact information (PH: (808) 274-3131)

Bill stated the purpose of this meeting was to:

- Provide potential bidders with a project overview and job site visit.
- Review procurement requirements and allow potential bidders to ask questions and obtain clarification on the bid documents.

Bill also informed everyone present that request for clarifications, substitution request and any other questions after this meeting shall be made in writing and faxed to 808-620-9299, no later than 4:00 pm, September 25, 2014, written response to requests will be issued to all plan holders via addenda.

Bill then turned the time over to Ken Kawahara to review the scope of work.

SCOPE OF WORK

Ken Kawahara stated that the scope of work included the following:

- This project consists of re-drilling and reaming the previously drilled well
- Installing steel casing,
- Grouting of the annular space,
- Pump testing and water quality testing of the well water,
- Chlorination of the completed well,
- Providing well completion reports to the Commission on Water Resources, and
- Providing a locked cap to the well.

PROCUREMENT REMINDERS

Kehaulani reviewed with the attendees the following procurement reminders:

- This project is not tax exempt. Your bid proposal must include General Excise Tax.
- This project is subject to Chapter 104 HRS, Department of Labor and Industrial Relations (DLIR) prevailing wages and salaries.
- After bid opening and prior to award of the contract, the Department shall verify compliance with Sections 103D-310 and 103D-328 HRS via Hawaii Compliance Express (HCE) for the bidder and all subcontractors. Therefore the bidder and all subcontractors must be registered with HCE. Instructions for registration are at the HCE website:
<http://vendors.ehawaii.gov>.

- Failure by the bidder and/or any subcontractor to rectify a non-compliant status within ten business days of notification will be considered as sufficient for the disqualification of the bidder and rejection of its proposal.
- Section 103-55.6 HRS - Apprenticeship Agreement Preference. Estimated value of this project is less than \$250,000, therefore this preference shall not apply.

COMPLETION SCHEDULE AND LIQUIDATED DAMAGES

Kehaulani stated that this project's time of performance would be 100 calendar days from the Notice to Proceed date and that the liquidated damages would be set at \$1,000 per calendar day.

DEADLINES

Kehaulani emphasized the following deadlines:

SUBMITTAL	DEADLINE
Hawaii Products Preference Request	2:00 pm, September 12, 2014
Publish Addendum with meeting minutes	4:00 pm, September 19, 2014
Request for Substitutions & Written questions	4:00 pm, September 25, 2014
Notice of Intention to Bid	4:00 pm, September 29, 2014
Standard Qualification Questionnaire <ul style="list-style-type: none">• SQQ submittals for previous projects not valid	4:00 pm, September 29, 2014
Issuance of Addenda (Final addenda) <ul style="list-style-type: none">• Interested bidders are required to check the DHHL procurement website for any Addenda issued.	4:00 pm, September 30, 2014
Bid Opening <ul style="list-style-type: none">• Sealed bids are due by 2:00 pm, according to DHHL's Hale Kalaniana'ole's time clock.	2:00 pm, October 9, 2014

<p>Bids will be received at DHHL's Hale Kalaniana'ole, 91-5420 Kapolei Parkway, Kapolei, HI 96707</p> <ul style="list-style-type: none"> • Bids will be opened shortly thereafter and read aloud in a conference room to be determined. Bidders may attend. • Bids submitted after 2:00 pm on October 9, 2014 will not be accepted nor opened, and will be returned. • Bid Forms included in IFB package. 	
<p>Award of contract will be made to the lowest responsible and responsive "Total Sum Bid", approximately two weeks following bid opening and after certification of the bid tabulation.</p>	

Bill then opened the floor to questions and comments

Questions & Responses:

- Ken mentioned that there seems to be some blockage in the well which David will check when we do the site visit.
- **Question:** Will there need to be an open hole pump test?
Answer: Yes the specifications for the pump test are located on Page 306-12 of the Technical Specifications section of the bid. Ken then read the Pumping and sampling sequence of work.
- **Question:** Is a NPDES permit required for this project?
Answer: No, this project does not require an NPDES permit.
- **Question:** Is there an active well construction permit?
Answer: There is an active well construction permit that expires May 28, 2015.
- **Question:** On page 306-3 of the Technical Specifications under the CASING section it states needing to use Kaiser Steel Kaisaloy, is that the only type we can use?
Answer: You may request for a substitution, that deadline is September 25, 2014.

The meeting was adjourned and everyone proceeded to the site visit.

Construction of the Wailua Well No. 1
Pre-bid Meeting and Site Visit
Tuesday, September 16, 2014

	NAME	COMPANY	TITLE	PHONE	EMAIL
1	Kihei A. Ahuna	Pacific Well Drilling & Pump Services	Owner	808-854-0077	pacificwelldrillingnps@gmail.com
2	FRED G. CAMERO JR	BETLIK DRILLING	GM	478-7114	CAMERO@BETLIK.COM
3	David Barnes	WWS	Partner	808-854-5747	dbarnes@amimewater.com
4	KEN KAWAHARA	AKINAKA & ASSOC.	Engineer	808-836-1900	KCK@Akinaka.com
5	Mike Sobor	VWD, LLC	Partner	808-682-1767	mike@vwdhi.com
6	Kehaulani Quartero	LDD	Labor Compliance Specialist	808-620-9284	kehaulani.a.quartero@hawaii.gov
7	Sean Teixeira	Good Fellow Bros., Inc.	General Contractor	808-652-0483	seant@goodfellowbros.com
8	Bill South	DHHL - LDD	Project Manager	808-620-9288	william.T.South@hawaii.gov
9					
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15					
16					

Questions from the site visit.

Question: Is the site fenced all the way around?

Answer: No

Question: When we are drilling do we need to set up a perimeter fence?

Answer: Perimeter fence not called for in the plans and specs. It's up to the contractor if he wants to erect at his cost.

Question: What is the Engineers budget for this project?

Answer: The engineer's budget will be revealed at the bid opening scheduled for 2:00 pm on October 9, 2014.

Question: Is there a power source at the site?

Answer: No the contractor will be responsible for getting power to the site in the form of a generator.

Question: Is there water available in the area?

Answer: Possibly water available from the Ranch, but it is the responsibility of the contractor pursuant to SC-10 to get water.

Question: Does DHHL have the data on the initial pump test?

Answer: The DHHL Wailua Well # 1 – Progress Report dated July 20, 2009 is attached to Addendum No. 1

Question: Will the mobilization include the clearing of the road to get to the site?

Answer: Everything as far as getting out to the site will be included in the lump sum mobilization.

Question: What is the status on the Water Commission Permit?

Answer: The permit has been extended to May 28, 2015.

Question: Does DHHL have the drilling logs?

Answer: The DHHL Wailua Well #1 – Progress Report dated July 20, 2009 is attached to Addendum No. 1

Question: Are the sampling requirements the contractors responsibility?

Answer: Yes there is a line item on the bid form for this purpose, it is an allowance item.

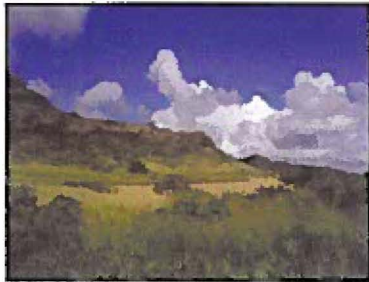
DHHL-Wailua Well #1 Progress Report

July 20th, 2009



Background

The location of Well #1 was determined during a visit to the DHHL property by Stephen P. Bowles and David R. Barnes of Waimea Water Services. As an experienced hydrologist, Mr. Bowles decided that the best location for a well should be located as close to the Kelepa Ridge as possible, so that we would be more likely to encounter the porous basalt of the "Waimea Series". Locating the well near the rear of the DHHL property, at higher elevation, would also be beneficial to the overall water system.



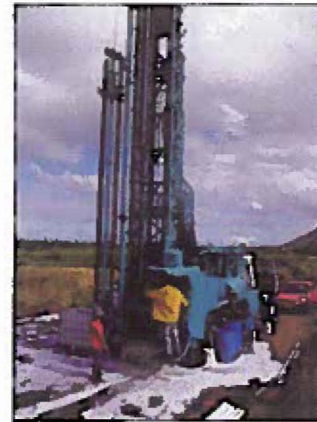
Kelepa Ridge



Outcrop of Basaltic Rock near Well #1

Construction

Wa'alani Enterprises, LLC. was contracted by Waimea Water Services to prepare the pad for drilling. Ground was broken June 22nd, 2009 and drilling of the 9 inch pilot hole began the next day by Derrick's Well Drilling and Pump Services, LLC. After water was encountered, drilling was stopped and a test pump was set at a depth of 114 feet. The first test resulted in a severe drawdown and pumping was stabilized @ 85 gpm with a chloride salinity of 280 mg/L (milligrams/liter). A decision was made to deepen the well an extra 20' in hopes of improving water quality as well as increasing gpm potential. The well was drilled to a final depth of 137.7'. A static water level was recorded at a depth of 75.5' below the top of the conductor pipe. The elevation of the well was determined by Akinaka & Associates, Ltd. to be 84.69'. The water level stands at 9.19' above mean sea level in the bore hole.



Derrick's Well Drilling Crew

The following geologic log was recorded by Mr. Bowles.

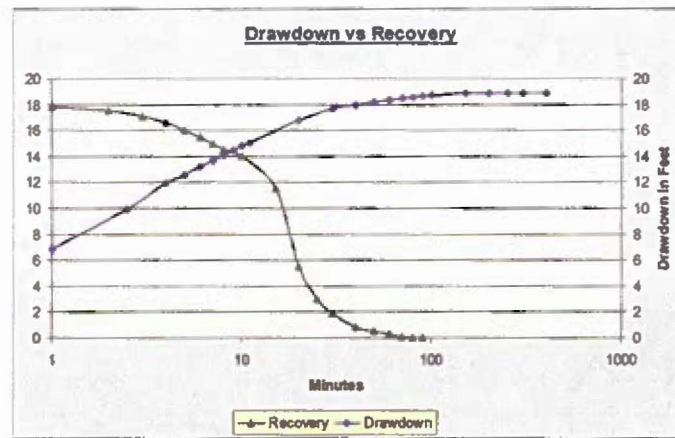
Depth in Feet	Geologic Description By: Stephen P. Bowles
0'-30'	Red Clay with boulders (talus)
30'-80'	Grey, thin bedded highly porous basalt (Waimea Series)
80'-105'	Some evidence of water @ ~95'
105'-110'	Hard grey basalt - slow drilling
110'-117'	Grey, thin bedded highly porous and permeable basalt (abundant water)
117'-125'	Yellow, orange, (firm but sticky clay when crumpled) clay- appears to be subaerial weathered ash
125'-137.7'	Grey, thin bedded highly porous basalt (Waimea Series)



Testing

The first pump test of the well was performed on July 1st, 2009. This test was intended to be a 24 hour test with the pump set at 150 gallons per minute. Unfortunately, this test was only able to run for 250 minutes because of a severe drawdown of the water level to the point where the pump was cavitating. Samples of the aquifer were taken and sent to the mainland for testing. Chloride testing was performed on site and determined to be 280 mg/L. Since 150 gpm could not be maintained, it was decided to deepen the pilot hole another 20 ft.

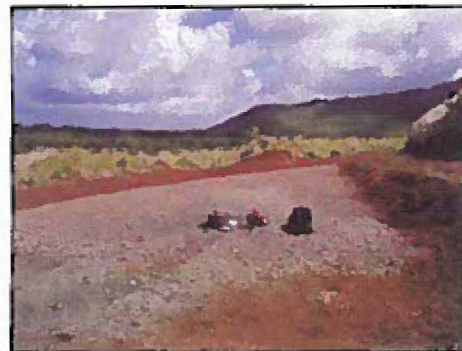
With the pump set at a depth of 129ft, the second pump test was performed on July 2nd, 2009. This test ran for 400 minutes at 150 gpm and stabilization of water level was observed. Additional water samples were taken during the test and showed a drop in chlorides to 180 mg/L. After the water level had stabilized, the pump was turned off and the water level was tracked and recorded until full recovery of the aquifer was observed. A graph plotting drawdown verses recovery can be seen below.



Pump test data sheets are located in Appendix A

Results & Recommendations

Due to the favorable results from the second pump test, it is the opinion of Waimea Water Services that Well #1 should be completed and the project should move forward with the construction of Well #2. Pumps for both wells should target 200 gallons per minute as a maximum pumping rate which will satisfy the future needs of the DHHL affordable housing development.



DHHL-Wailua Well #1 as of July 15th, 2009



Appendix A: Pump Test Data

Data Recorded: July 2nd, 2009

Drawdown Data								
Suggested Time	Actual Time	DTW	Drawdown	Pumping Rate	EC	Chlorides	Temp.	Comments
0	10:48	75.55	0	150				Start Pump
1	10:50	82.4	6.85	150	907		80.2	
1.5				150				
2				150				
2.5	10:52	85.5	9.95	150				
3				150	898	180	77	
4	10:53	87.5	11.95	150				
5	10:54	88.1	12.55	150	898		77	
6	10:56	88.8	13.25	150				
7	10:57	89.2	13.65	150				
8	10:58	89.6	14.05	150	892		77.1	
9	10:59	90	14.45	150				
10	11:00	90.33	14.78	150				
11	11:01	90.6	15.05	150	892		77.1	
20	11:11	92.3	16.75	150	882		77.5	
30	11:21	93.2	17.65	150	876	180	77.3	
40	11:31	93.5	17.95	150	874		77.3	
50	11:41	93.71	18.16	150	875		76.8	
60	11:51	93.92	18.37	150	874		77.3	
70	12:01	94.05	18.5	150	878		77.3	
80	12:11	94.15	18.6	150	879		77	
90	12:21	94.2	18.65	150	879		77	
100	12:31	94.3	18.75	150	881		77.1	
150	1:21	94.4	18.85	150	873	180	77.7	
200	2:11	94.4	18.85	150	876		76.8	
250	3:01	94.4	18.85	150	873		76.8	
300	3:51	94.4	18.85	150	867		77	
400	4:30	94.4	18.85	150	867		76.8	Stop Pump

Pump Test Data Continued
Data Recorded: July 2nd, 2009

Recovery Data			
Suggested Time	Actual Time	DTW	Recovery
0			
1	4:30	93.3	17.8
2	4:31	93	17.5
3	4:33	92.6	17.1
4	4:34	92.1	16.6
5	4:35	91.5	16
6	4:36	91	15.5
7	4:37	90.5	15
8	4:38	90	14.5
10	4:40	89.5	14
15	4:45	87	11.5
20	4:50	81	5.5
25	4:55	78.5	3
30	5:00	77.4	1.9
40	5:10	76.3	0.8
50	5:20	76	0.5
60	5:30	75.8	0.3
70	5:40	75.6	0.1
80	5:50	75.5	0
90	6:00	75.5	0