

**MINISTRY OF INDUSTRY, MINES AND ENERGY
SIEM REAP WATER SUPPLY AUTHORITY
THE KINGDOM OF CAMBODIA**

**FINAL REPORT 2
ON
THE PREPARATORY STUDY
ON
THE SIEM REAP WATER SUPPLY
EXPANSION PROJECT
IN
THE KINGDOM OF CAMBODIA**

**VOLUME III
SUPPORTING REPORT**

August 2011

JAPAN INTERNATIONAL COOPERATION AGENCY

**NJS CONSULTANTS CO., LTD.
KOKUSAI KOGYO CO., LTD.**

GED
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11-140

The applied exchange rate is:

US\$ 1.00 = KHR(Khmer Riel) 4,165 = ¥ 90.5 (as of May 2010)

Supporting Report

Supporting Report

Report No. **Title of Supporting Report**

Chapter 2. Survey Results for Groundwater Sources

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SR 2-1(2)	Resistivity Sounding Data Sheet
SR 2-2(1)	Well Inventory Survey Instruction
SR 2-2(2)	Questionnaire Form for Well Inventory Survey
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SR 3-3(1)	Data of Existing Monitoring Wells Constructed by “the Study on Water Supply System for Siem Reap Region in Cambodia by JICA, March 2000.”

Chapter 4. Hydrological Conditions in Siem Reap

SR 4-1(1)	Simultaneous Groundwater Level Observation Survey Data Sheet
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Chapter 5. Groundwater Simulation

SR 5-1(1)	Volume Compressibility (Mv) Test Result (Source: the Study on Water Supply System for Siem Reap Region in Cambodia by JICA, March 2000)
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Supporting Report

Chapter 2
Survey Results
for Groundwater Sources

Chapter 2. Survey Results for groundwater Sources

SR 2-1(1) VES Analysis Results

The resistivity survey data were analyzed by the inverse analysis technique using a computer software. Based on the results of the Study on Water Supply System for Siem Reap Region in Cambodia (2000) that geological structures in Siem Reap area were formed by 4 ones and geophysical survey data of this study were analyzed. The data obtained from each site was fit with a curve generated by four to nine subsurface resistivity layers. Figure 2.1 in the supporting report shows the final resistivity layer structures at each survey sites and corresponding curve that is fitted to the data plots.

SR 2-1(2) Resistivity Sounding Data Sheet

Table 2.1 Resistivity Sounding Data Sheets

SR 2-2(1) Well Inventory Survey Instruction

The surveyors were trained for proper and efficient data collection in the survey. They were given the handout attached as Table 2.2.1 in the supporting report along with the questionnaire sheets. The handouts give explanations, definitions, instructions concerning each and every survey items.

SR2-2(2) Questionnaire Form for Well Inventory Survey

The final questionnaire sheets used in the survey are attached as Table 2.2.2 in the Supporting Report. The sheet was first prepared by the Japanese consultant and then was discussed by the local surveyors who carried out the survey. It was finally translated into the local language.

SR 2-2(3) Structures and Relationship of Tables and Types of Queries in Database

Figure 2.2 in the Supporting Report illustrates the relations of the records in the database and the queries included in the database. The data records that were relevant to SRWSA work were selectively chosen from the survey data and some queries were created to automate the procedure of data finding and sorting.

SR 2-2(4) Well Inventory Data Sheet

Table 2.2.4 Structure of Well Inventory Data Sheet with Data Sheets

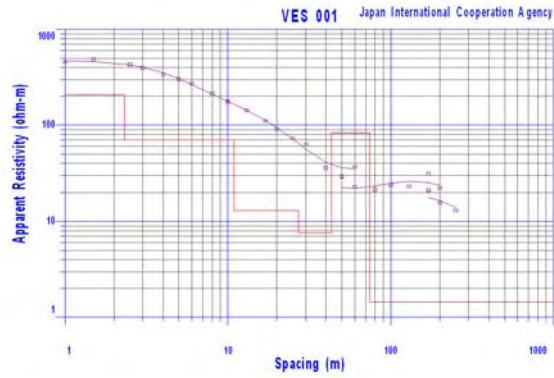
SR 2-3(1) Results of Field Water Quality Tests

Table 2.3 Results of Field Water Quality Tests

VES 001

Layered Model

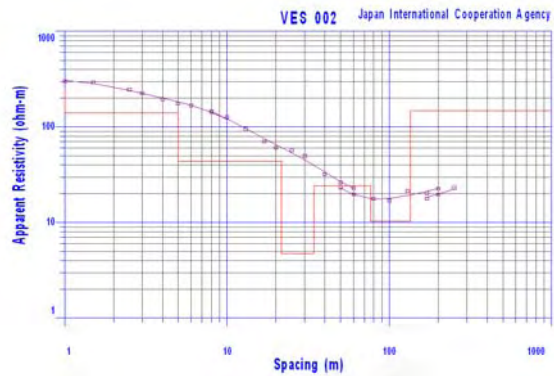
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	209.0	2.3	2.3	12.7	Qal
2	70.1	8.6	10.9	4.1	Qal
3	12.9	16.2	27.1	-12.1	Qsd
4	7.5	16.1	43.1	-28.1	Tcy
5	82.4	31.4	74.5	-59.5	Mbr
6	1.4				Mbr



VES 002

Layered Model

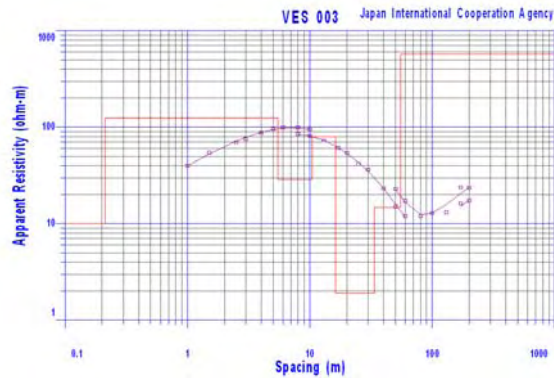
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	243.3	1.0	1.0	12.0	Qal
2	140.3	4.0	5.0	8.0	Qal
3	43.7	16.6	21.6	-8.6	Qal/Qsd
4	4.7	12.7	34.2	-21.2	Qsd
5	24.4	42.3	76.5	-63.5	Tcy
6	10.3	58.9	135.4	-122.4	Mbr
7	147.0				Mbr



VES 003

Layered Model

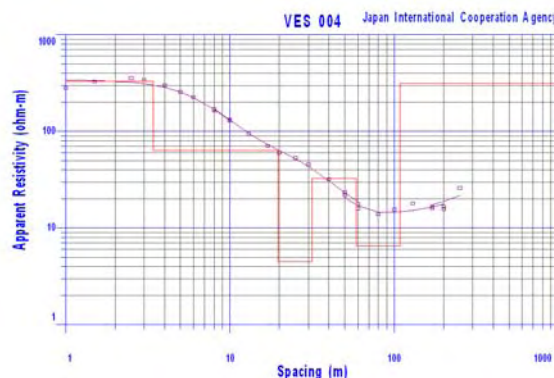
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	10.1	0.2	0.2	4.8	Qal
2	124.2	5.3	5.5	-0.5	Qal
3	28.8	4.9	10.4	-5.4	Qsd
4	80.2	5.8	16.2	-11.2	Qsd
5	1.9	17.5	33.7	-28.7	Tcy
6	14.7	21.3	55.0	-50.0	Tcy
7	573.5				Mbr



VES 004

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	330.5	3.4	3.4	8.6	Qal
2	63.1	16.2	19.6	-7.6	Qal/Qsd
3	4.5	11.9	31.6	-19.6	Tcy
4	32.5	27.0	58.6	-46.6	Tcy
5	6.5	50.2	108.8	-96.8	Mbr
6	313.0				Mbr
7					



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

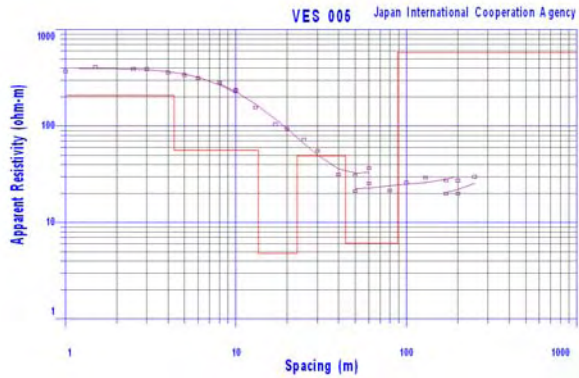
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (1/14)

VES 005

Layered Model

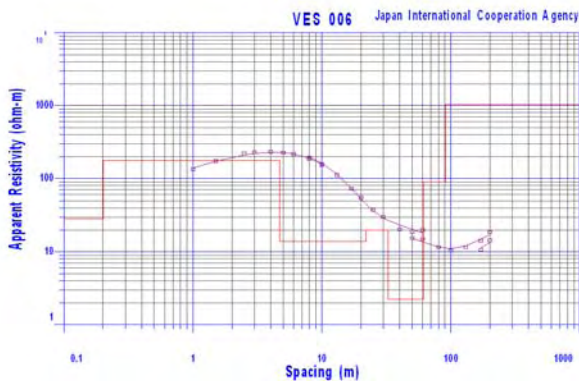
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	207.0	4.4	4.4	6.6	Qal
2	56.1	9.1	13.5	-2.5	Qal
3	4.8	9.3	22.8	-11.8	Qal
4	48.8	21.3	44.1	-33.1	Qsd
5	6.1	44.2	88.4	-77.4	Tcy
6	582.1				Mbr
7					



VES 006

Layered Model

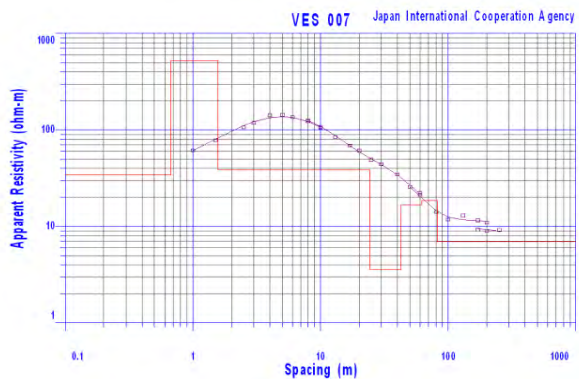
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	28.5	0.2	0.2	6.8	Qal
2	175.8	4.5	4.7	2.3	Qal
3	13.9	17.2	21.8	-14.8	Qal/Qsd
4	19.9	10.8	32.6	-25.6	Qsd
5	2.2	28.6	61.2	-54.2	Tcy
6	89.2	29.7	90.8	-83.8	Tcy
7	1043				Mbr



VES 007

Layered Model

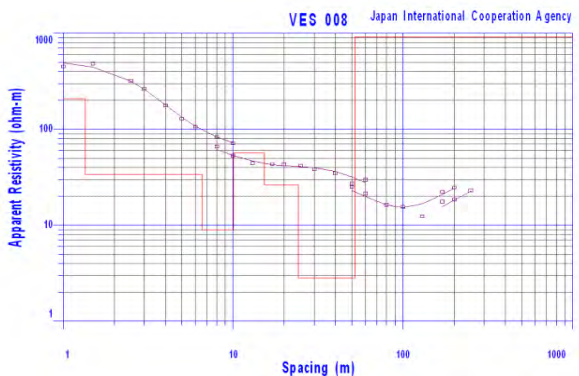
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	34.3	0.7	0.7	8.3	Qal
2	522.0	0.9	1.6	7.4	Qal
3	38.7	22.8	24.3	-15.3	Qal/Qsd
4	3.6	18.4	42.7	-33.7	Qsd/Tcy
5	16.7	19.4	62.1	-53.1	Tcy
6	18.5	20.0	82.1	-73.1	Tcy
7	6.9				Mbr



VES 008

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	207.5	1.3	1.3	11.7	Qal
2	33.8	5.2	6.5	6.5	Qal
3	8.9	3.5	10.0	3.0	Qal
4	56.8	5.3	15.3	-2.3	Qsd
5	26.1	8.9	24.2	-11.2	Qsd
6	2.8	27.7	51.9	-38.9	Tcy
7	918.3				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

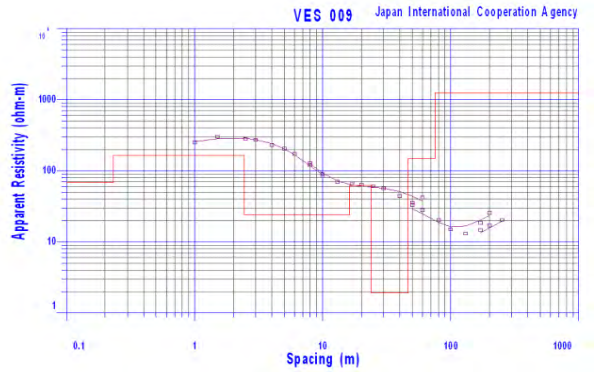
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (2/14)

VES 009

Layered Model

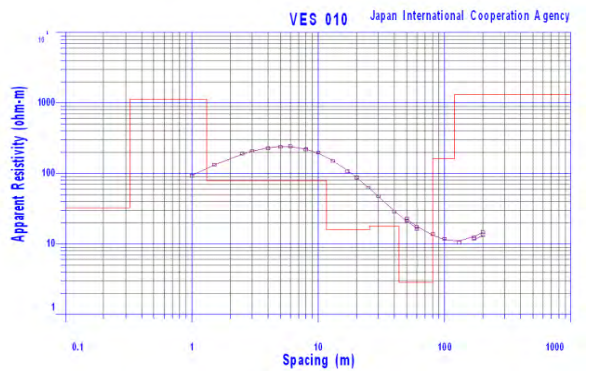
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	68.8	0.2	0.2	10.8	Qal
2	164.8	2.2	2.5	8.5	Qal
3	24.2	13.7	16.1	-5.1	Qal/Qsd
4	62.5	7.7	23.9	-12.9	Qsd
5	1.9	22.5	46.3	-35.3	Tcy
6	150.0	29.0	75.4	-64.4	Tcy
7	1258.4				Mbr



VES 010

Layered Model

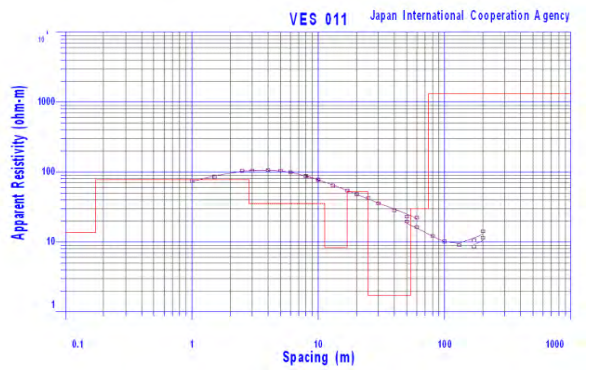
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	32.8	0.3	0.3	8.7	Qal
2	1133.8	1.0	1.3	7.7	Qal
3	79.7	10.3	11.6	-2.6	Qal
4	15.9	13.8	25.5	-16.5	Qal
5	17.9	18.2	43.7	-34.7	Qsd
6	2.9	36.8	80.5	-71.5	Tcy
7	162.8	39.0	119.4	-110.4	Mbr
8	1313.7				Mbr



VES 011

Layered Model

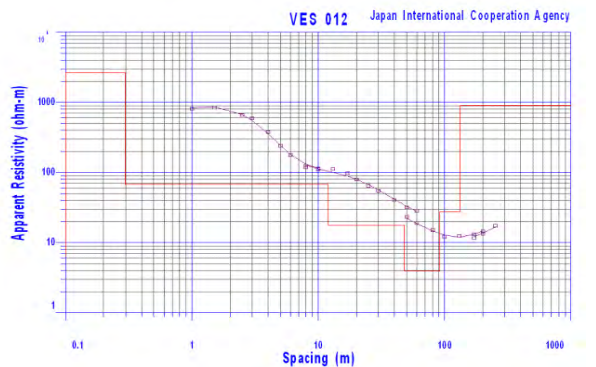
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	13.7	0.2	0.2	6.8	Qal
2	78.4	2.7	2.8	4.2	Qal
3	35.3	8.4	11.2	-4.2	Qal
4	8.3	5.6	16.9	-9.9	Qal
5	52.3	7.6	24.5	-17.5	Qsd
6	1.7	29.7	54.2	-47.2	Tcy
7	29.9	20.6	74.9	-67.9	Tcy
8	1317.3				Mbr



VES 012

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	6.5	0.0	0.0	11.0	Qal
2	2642.1	0.3	0.3	10.7	Qal
3	68.4	11.6	11.9	-0.9	Qal
4	17.7	36.2	48.1	-37.1	Qsd
5	3.9	43.7	91.8	-80.8	Tcy
6	27.5	40.6	132.4	-121.4	Mbr
7	900.9				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

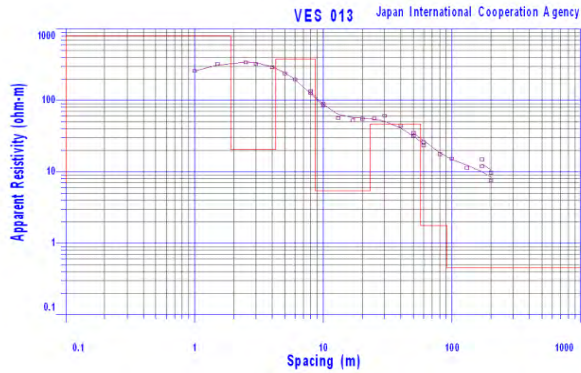
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (3/14)

VES 013

Layered Model

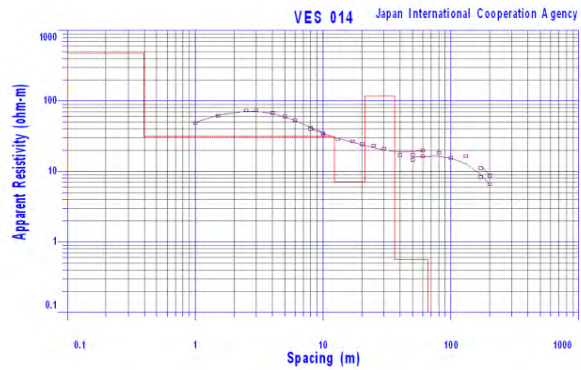
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	7.1	0.0	0.0	7.0	Qal
2	807.6	1.9	1.9	5.1	Qal
3	20.6	2.4	4.3	2.7	Qal
4	378.5	4.4	8.7	-1.7	Qal
5	5.4	14.3	23.0	-16.0	Qal
6	46.9	33.8	56.8	-49.8	Qsd
7	1.8	34.3	91.1	-84.1	Tcy
8	0.4				Mbr



VES 014

Layered Model

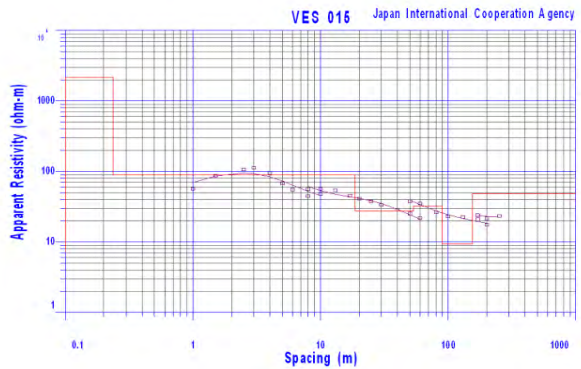
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	3.8	0.1	0.1	3.9	Qal
2	474.1	0.3	0.4	3.6	Qal
3	31.3	11.8	12.2	-8.2	Qal
4	7.2	9.0	21.2	-17.2	Qal
5	116.8	15.0	36.2	-32.2	Qsd
6	0.6	30.2	66.5	-62.5	Tcy
7	0.1				Mbr
8					



VES 015

Layered Model

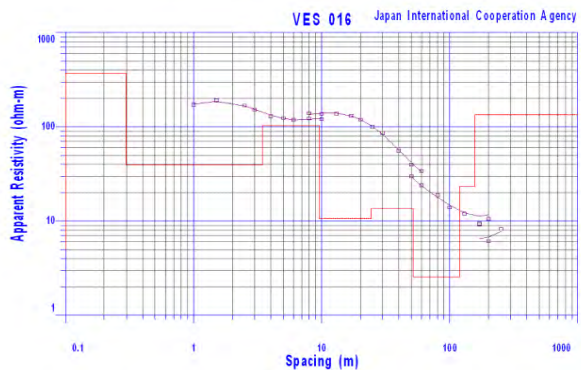
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	7.2	0.0	0.0	8.3	Qal
2	2177.4	0.2	0.2	8.1	Qal
3	88.9	18.5	18.7	-10.4	Qal
4	27.5	35.0	53.7	-45.4	Qsd
5	32.1	36.2	89.8	-81.5	Tcy
6	9.4	64.4	154.3	-146.0	Mbr
7	48.2				Mbr
8					



VES 016

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	5.0	0.0	0.0	5.5	Qal
2	370.9	0.3	0.3	5.2	Qal
3	39.7	3.1	3.4	2.1	Qal
4	103.4	6.1	9.6	-4.1	Qal
5	10.6	14.7	24.3	-18.8	Qal
6	13.6	27.5	51.8	-46.3	Qsd
7	2.6	68.2	119.9	-114.4	Tcy/Mbr
8	23.5	37.2	157.1	-151.6	Mbr
9	134.0				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

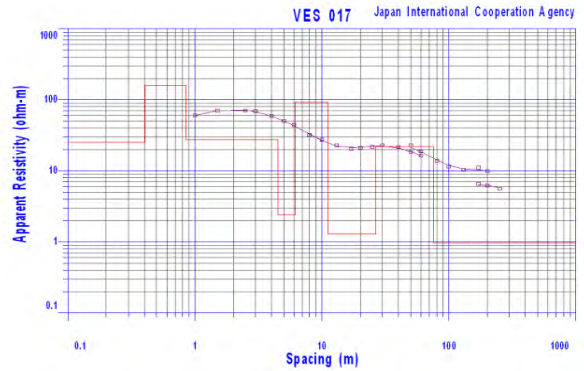
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (4/14)

VES 017

Layered Model

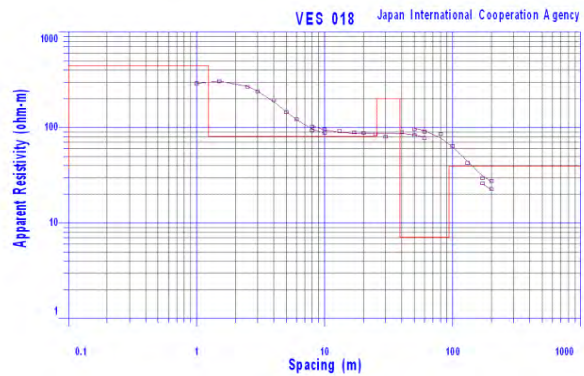
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	25.4	0.4	0.4	2.6	Qal
2	159.3	0.4	0.8	2.2	Qal
3	27.5	3.6	4.5	-1.5	Qal
4	2.4	1.7	6.1	-3.1	Qal
5	91.8	5.0	11.2	-8.2	Qal
6	1.3	15.3	26.5	-23.5	Qal
7	22.1	48.8	75.3	-72.3	Qsd/Tcy
8	1.0				Mbr



VES 018

Layered Model

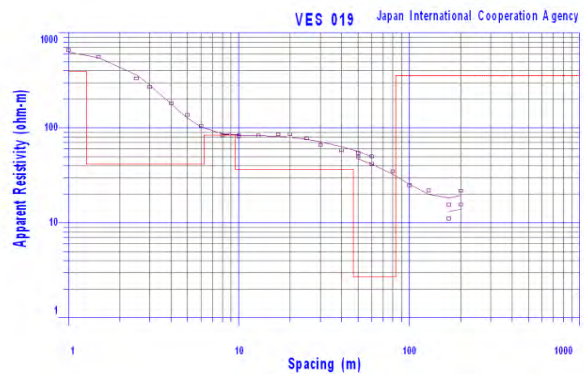
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	36.9	0.0	0.0	8.2	Qal
2	445.4	1.2	1.2	7.0	Qal
3	80.9	24.1	25.3	-17.1	Qal
4	200.9	13.2	38.5	-30.3	Qsd
5	7.1	54.7	93.2	-85.0	Qsd/Tcy
6	39.7				Mbr
7					
8					



VES 019

Layered Model

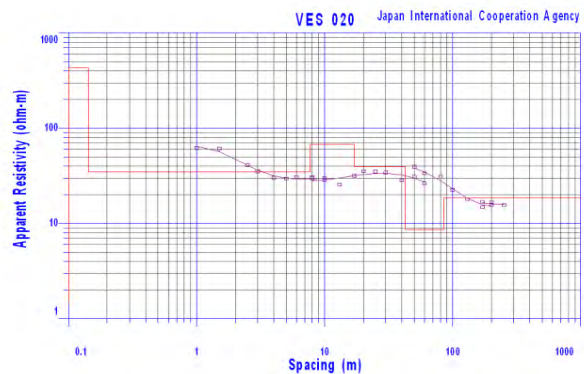
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	396.5	1.3	1.3	5.6	Qal
2	41.8	5.0	6.3	0.6	Qal
3	84.4	3.2	9.5	-2.6	Qal
4	36.5	37.2	46.7	-39.8	Qal/Qsd
5	2.7	36.3	83.1	-76.2	Tcy
6	354.5				Mbr
7					
8					



VES 020

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	1.4	0.0	0.0	5.0	Qal
2	432.2	0.1	0.1	4.9	Qal
3	34.8	7.6	7.7	-2.7	Qal
4	67.4	9.3	17.0	-12.0	Qal
5	39.6	25.6	42.6	-37.6	Qsd
6	8.6	41.9	84.6	-79.6	Tcy
7	18.6				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

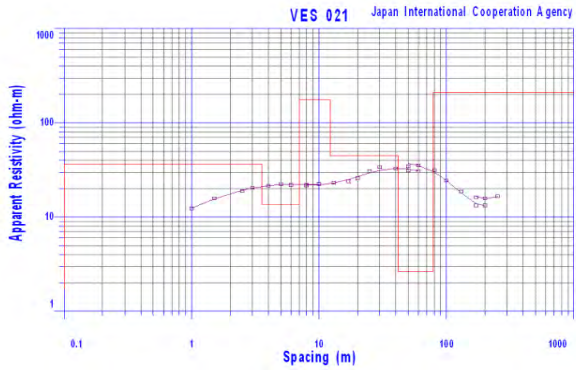
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (5/14)

VES 021

Layered Model

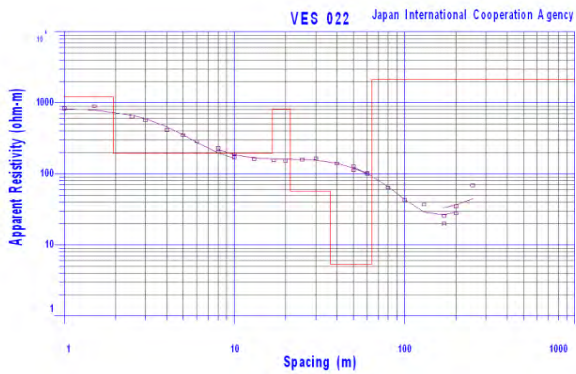
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	1.7	0.1	0.1	2.9	Qal
2	36.6	3.5	3.6	-0.6	Qal
3	13.6	3.5	7.0	-4.0	Qal
4	176.9	5.2	12.2	-9.2	Qal
5	45.0	29.3	41.5	-38.5	Qsd
6	2.7	36.9	78.5	-75.5	Tcy
7	209.9				Mbr
8					



VES 022

Layered Model

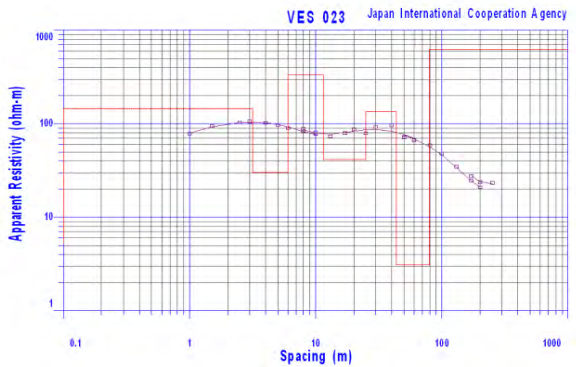
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	1220.4	1.9	1.9	6.2	Qal
2	194.8	14.8	16.8	-8.7	Qal
3	815.2	4.4	21.2	-13.1	Qal
4	56.9	15.4	36.6	-28.5	Qsd
5	5.4	27.6	64.2	-56.1	Tcy
6	2123.8				Mbr
7					
8					



VES 023

Layered Model

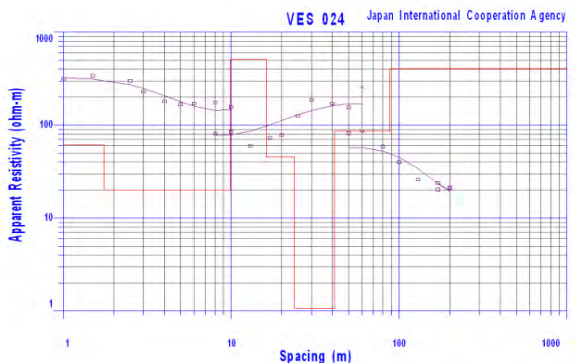
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	5.3	0.0	0.0	5.4	Qal
2	144.8	3.1	3.2	2.2	Qal
3	30.3	2.9	6.0	-0.6	Qal
4	334.1	5.5	11.5	-6.1	Qal
5	41.5	13.4	24.9	-19.5	Qsd
6	134.3	18.6	43.4	-38.0	Tcy
7	3.1	36.1	79.5	-74.1	Tcy
8	623.2				Mbr



VES 024

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	62.2	1.7	1.7	5.8	Qal
2	20.1	8.1	9.9	-2.4	Qal
3	512.4	6.2	16.1	-8.6	Qal
4	45.7	7.6	23.7	-16.2	Qsd
5	1.1	17.3	41.1	-33.6	Tcy
6	86.0	46.9	88.0	-80.5	Mbr
7	402.5				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

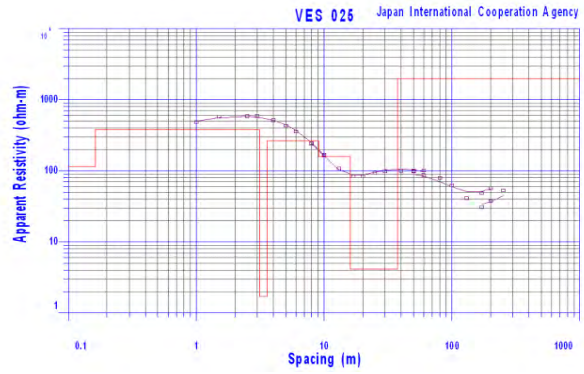
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (6/14)

VES 025

Layered Model

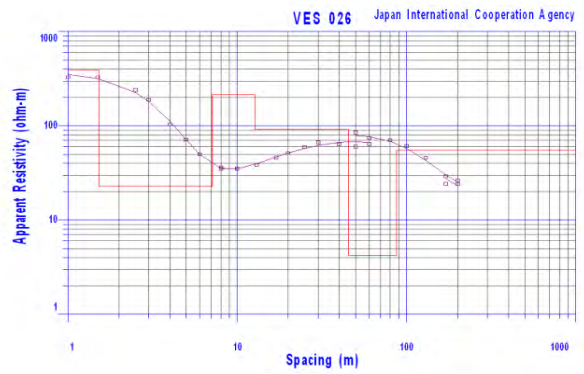
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	115.2	0.2	0.2	9.1	Qal
2	380.5	3.0	3.1	6.2	Qal
3	1.7	0.5	3.6	5.7	Qal
4	266.9	5.5	9.1	0.2	Qal
5	160.4	6.9	16.0	-6.7	Qsd
6	4.1	21.4	37.4	-28.1	Qsd/Tcy
7	1991.9				Mbr
8					



VES 026

Layered Model

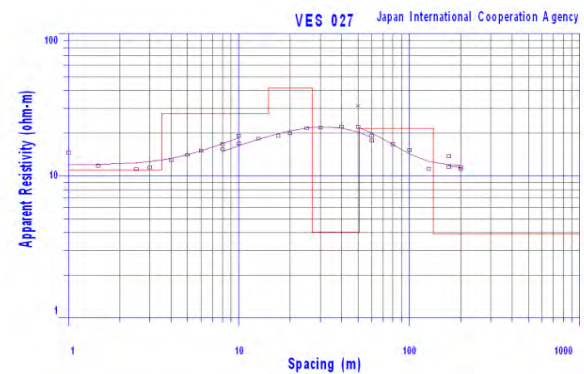
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	392.2	1.5	1.5	6.5	Qal
2	22.8	5.6	7.1	0.9	Qal
3	214.8	5.6	12.7	-4.7	Qal
4	91.5	32.6	45.3	-37.3	Qsd
5	4.2	42.0	87.4	-79.4	Tcy
6	54.9				Mbr
7					
8					



VES 027

Layered Model

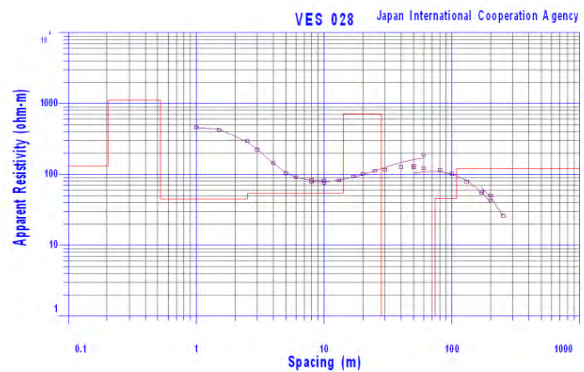
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	11.0	3.5	3.5	2.5	Qal
2	27.4	11.4	14.9	-8.9	Qal
3	41.8	11.9	26.8	-20.8	Qsd
4	4.0	24.0	50.8	-44.8	Tcy
5	21.5	87.6	138.4	-132.4	Mbr
6	3.9				
7					
8					



VES 028

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	133.1	0.2	0.2	9.6	Qal
2	1115.8	0.3	0.5	9.3	Qal
3	45.0	2.0	2.5	7.3	Qal
4	54.8	11.5	14.0	-4.2	Qal
5	715.4	14.2	28.2	-18.4	Qsd
6	0.5	45.8	74.0	-64.2	Tcy
7	46.0	34.5	108.5	-98.7	Mbr
8	122.1				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

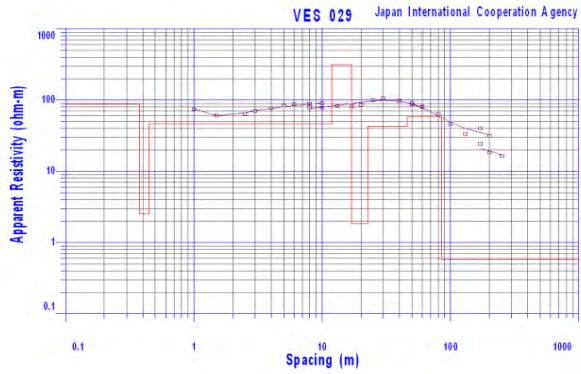
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (7/14)

VES 029

Layered Model

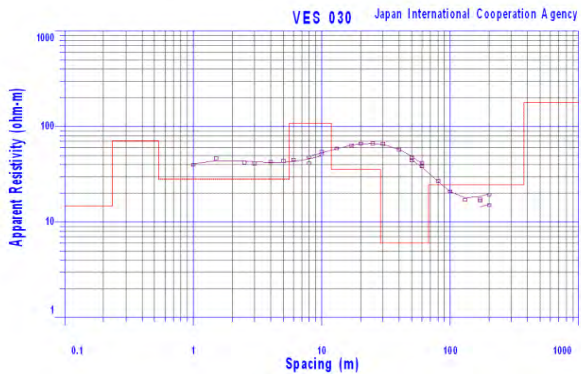
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	88.0	0.4	0.4	8.3	Qal
2	2.5	0.1	0.4	8.3	Qal
3	46.6	11.4	11.9	-3.2	Qal
4	317.7	5.1	16.9	-8.2	Qal
5	1.8	5.6	22.5	-13.8	Qal
6	42.6	23.5	46.0	-37.3	Qsd
7	58.8	39.1	85.1	-76.4	Tcy
8	0.6				Mbr



VES 030

Layered Model

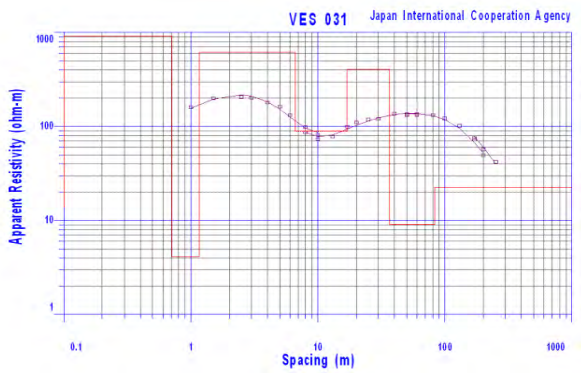
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	14.7	0.2	0.2	6.8	Qal
2	70.8	0.3	0.5	6.5	Qal
3	28.1	5.1	5.6	1.4	Qal
4	108.6	6.3	11.9	-4.9	Qal
5	35.8	16.7	28.6	-21.6	Qsd
6	6.0	38.9	67.5	-60.5	Tcy
7	24.6	306.7	374.2	-367.2	Mbr
8	179.1				Mbr



VES 031

Layered Model

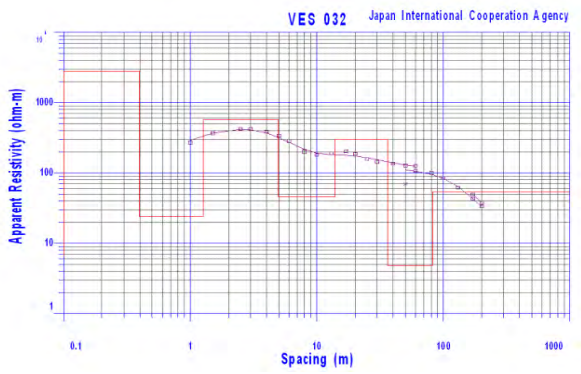
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	14.0	0.1	0.1	7.6	Qal
2	917.4	0.6	0.7	7.0	Qal
3	4.1	0.4	1.2	6.5	Qal
4	614.6	5.5	6.6	1.1	Qal
5	89.0	10.4	17.0	-9.3	Qal
6	405.2	19.6	36.6	-28.9	Qsd
7	9.1	46.4	82.9	-75.2	Tcy
8	22.4				Mbr



VES 032

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	6.7	0.0	0.0	6.7	Qal
2	2803.2	0.4	0.4	6.3	Qal
3	23.9	0.9	1.3	5.4	Qal
4	575.0	3.7	4.9	1.8	Qal
5	45.6	8.9	13.9	-7.2	Qal
6	298.9	22.4	36.3	-29.6	Qsd
7	4.8	46.2	82.5	-75.8	Tcy
8	53.7				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

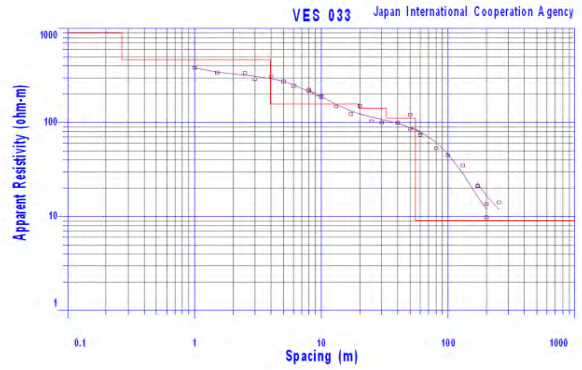
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (8/14)

VES 033

Layered Model

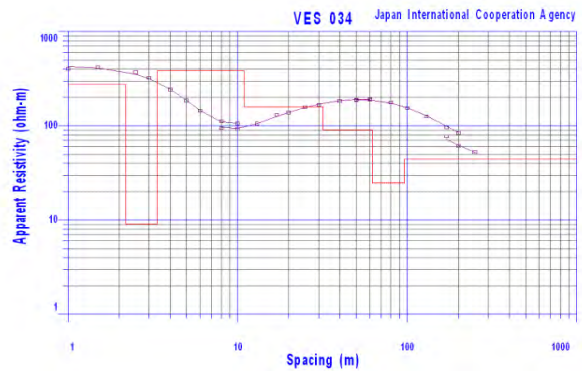
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	905.0	0.3	0.3	4.7	Qal
2	466.0	3.7	4.0	1.0	Qal
3	156.5	15.8	19.8	-14.8	Qal
4	141.2	12.8	32.6	-27.6	Qsd
5	110.8	22.4	55.0	-50.0	Tcy
6	9.1				Mbr
7					
8					



VES 034

Layered Model

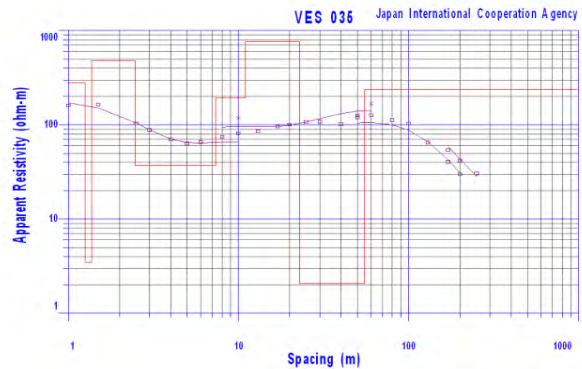
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	276.2	2.2	2.2	5.4	Qal
2	9.0	1.2	3.3	4.3	Qal
3	384.0	7.6	10.9	-3.3	Qal
4	158.8	20.9	31.8	-24.2	Qsd
5	91.1	30.2	62.1	-54.5	Tcy
6	24.8	34.0	96.1	-88.5	Mbr
7	44.1				Mbr
8					



VES 035

Layered Model

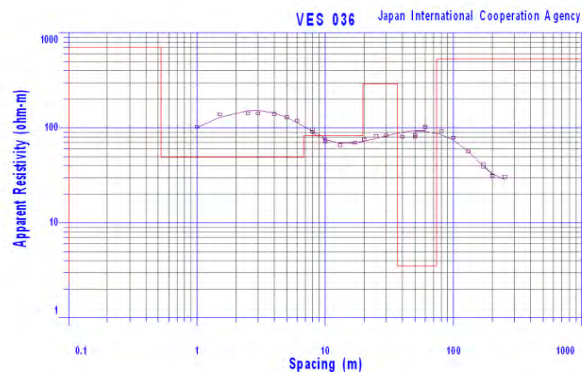
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	279.0	1.3	1.3	4.8	Qal
2	3.5	0.1	1.4	4.7	Qal
3	482.0	1.1	2.5	3.6	Qal
4	37.1	4.9	7.3	-1.2	Qal
5	192.8	3.7	11.0	-4.9	Qal
6	772.4	11.9	22.9	-16.8	Qsd
7	2.1	32.3	55.2	-49.1	Tcy
8	237.8				Mbr



VES 036

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	2.3	0.0	0.0	5.0	Qal
2	702.5	0.5	0.5	4.5	Qal
3	49.4	6.3	6.8	-1.8	Qal
4	82.6	12.9	19.7	-14.7	Qal
5	291.1	16.8	36.5	-31.5	Qsd
6	3.5	37.0	73.5	-68.5	Tcy
7	530.4				Mbr
8					



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

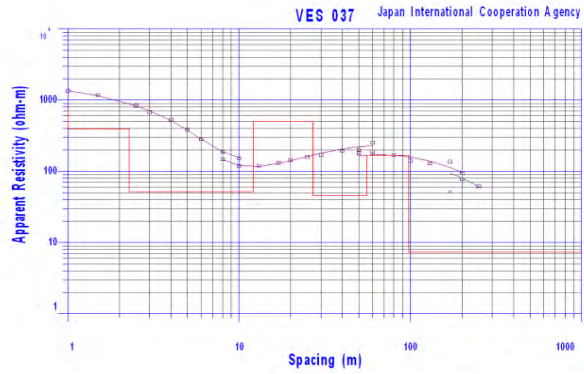
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (9/14)

VES 037

Layered Model

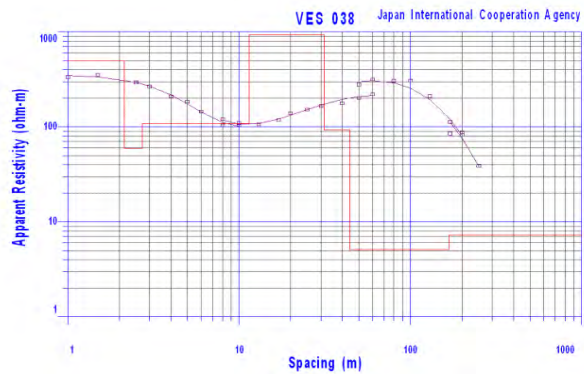
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	753.3	0.7	0.7	7.8	Qal
2	395.6	1.6	2.3	6.2	Qal
3	52.2	9.8	12.1	-3.6	Qal
4	499.9	14.9	27.0	-18.5	Qsd
5	45.8	28.7	55.7	-47.2	Tcy
6	166.7	41.6	97.3	-88.8	Mbr
7	7.4				Mbr
8					



VES 038

Layered Model

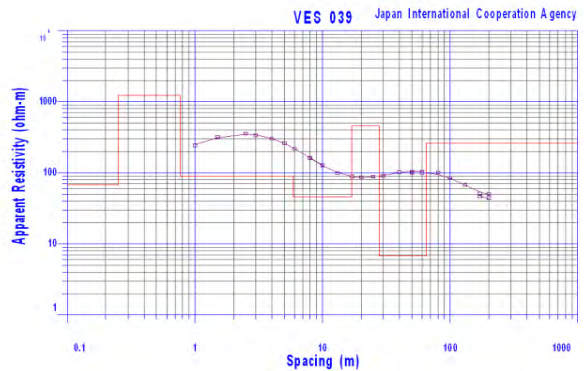
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	499.3	2.1	2.1	5.3	Qal
2	59.4	0.6	2.7	4.7	Qal
3	108.0	8.7	11.4	-4.0	Qal
4	931.5	19.9	31.4	-24.0	Qsd
5	92.6	12.9	44.3	-36.9	Tcy
6	5.1	123.2	167.5	-160.1	Mbr
7	7.3				Mbr
8					



VES 039

Layered Model

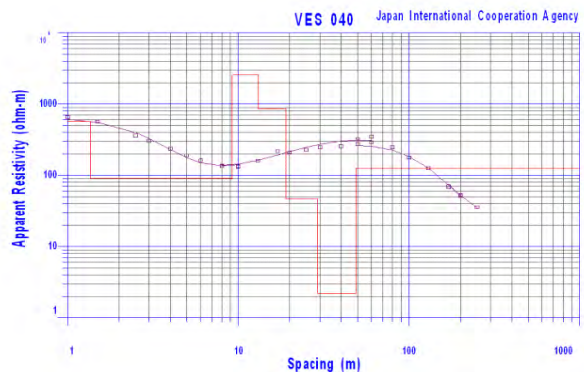
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	68.6	0.3	0.3	5.749	Qal
2	1238.4	0.5	0.8	5.2381	Qal
3	89.1	5.1	5.9	0.107	Qal
4	45.7	10.9	16.8	-10.83	Qal
5	456.8	10.8	27.6	-21.61	Qsd
6	6.8	37.0	64.6	-58.63	Tcy
7	263.2				Mbr
8					



VES 040

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	570.0	1.4	1.4	7.5	Qal
2	91.3	7.9	9.2	-0.3	Qal
3	2563.4	3.9	13.1	-4.2	Qal
4	861.4	5.8	18.9	-10.0	Qsd
5	46.8	10.2	29.1	-20.2	Qsd
6	2.2	19.6	48.7	-39.8	Tcy
7	126.0				Mbr
8					



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

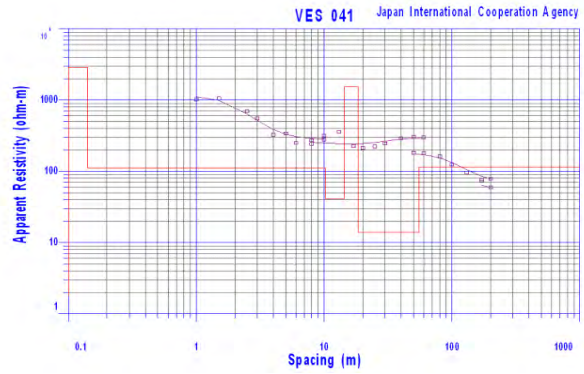
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (10/14)

VES 041

Layered Model

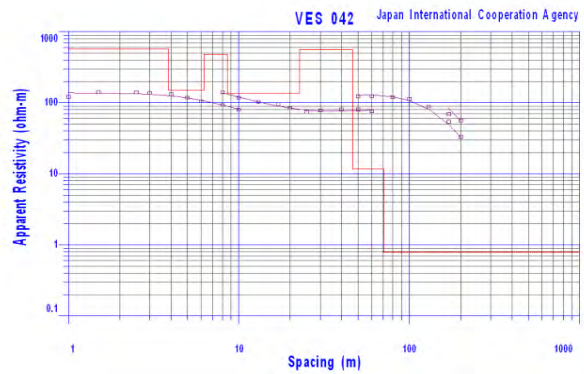
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	1.8	0.0	0.0	7.0	Qal
2	2902.5	0.1	0.1	6.9	Qal
3	111.9	10.1	10.2	-3.2	Qal
4	41.7	4.1	14.3	-7.3	Qal
5	1536.4	4.2	18.5	-11.5	Qsd
6	13.9	36.7	55.2	-48.2	Qsd/Tcy
7	114.7				Mbr
8					



VES 042

Layered Model

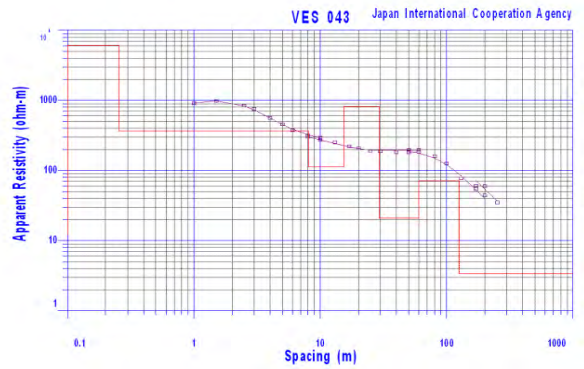
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	569.4	3.8	3.8	2.2	Qal
2	152.0	2.4	6.2	-0.2	Qal
3	482.1	2.3	8.5	-2.5	Qal
4	136.4	14.1	22.6	-16.6	Qal
5	562.7	23.9	46.6	-40.6	Qsd
6	11.7	24.3	70.9	-64.9	Tcy
7	0.8				Mbr
8					



VES 043

Layered Model

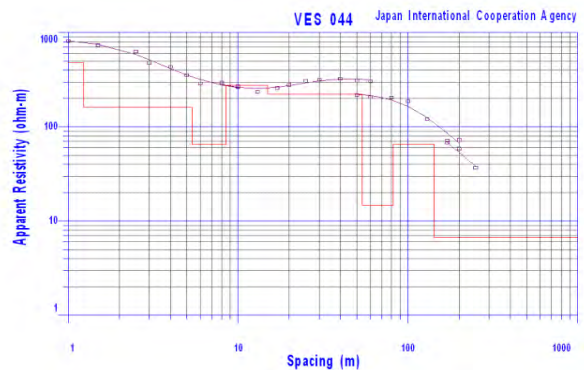
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	12.1	0.0	0.0	9.2	Qal
2	6188.9	0.2	0.3	8.9	Qal
3	365.9	7.8	8.1	1.1	Qal
4	113.9	7.3	15.4	-6.2	Qal
5	821.4	13.9	29.3	-20.1	Qsd
6	20.8	30.8	60.2	-51.0	Tcy
7	71.2	65.5	125.6	-116.4	Mbr
8	3.4				Mbr



VES 044

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	478.5	1.2	1.2	7.8	Qal
2	161.8	4.1	5.4	3.6	Qal
3	65.2	3.1	8.5	0.5	Qal
4	275.6	6.4	14.9	-5.9	Qal
5	222.4	38.8	53.7	-44.7	Qsd
6	14.7	27.8	81.6	-72.6	Tcy
7	65.0	60.7	142.3	-133.3	Mbr
8	6.6				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

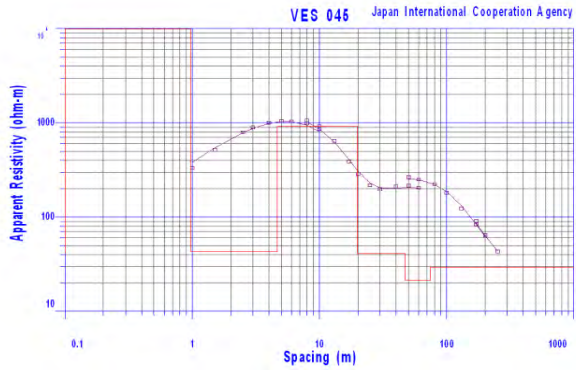
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (11/14)

VES 045

Layered Model

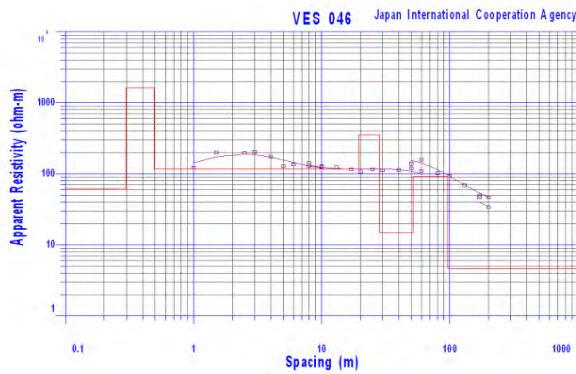
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	41.4	0.1	0.1	6.9	Qal
2	9882.1	0.9	1.0	6.0	Qal
3	43.1	3.7	4.7	2.3	Qal
4	914.4	15.3	19.9	-12.9	Qal
5	40.9	27.2	47.1	-40.1	Qsd
6	21.4	27.7	74.8	-67.8	Tcy
7	29.5				Mbr
8					



VES 046

Layered Model

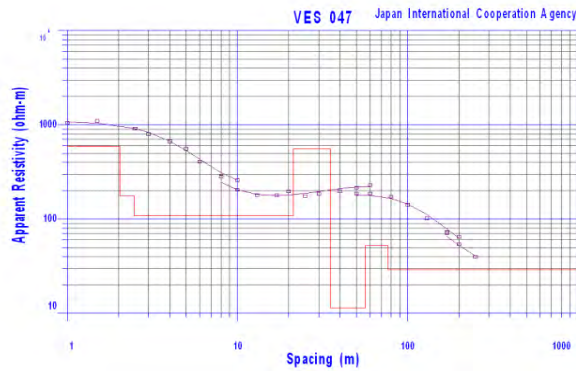
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	62.6	0.3	0.3	5.7	Qal
2	1623.3	0.2	0.5	5.5	Qal
3	117.0	18.9	19.4	-13.4	Qal
4	356.6	8.9	28.3	-22.3	Qsd
5	14.9	23.4	51.7	-45.7	Tcy
6	92.6	44.9	96.6	-90.6	Mbr
7	4.7				Mbr
8					



VES 047

Layered Model

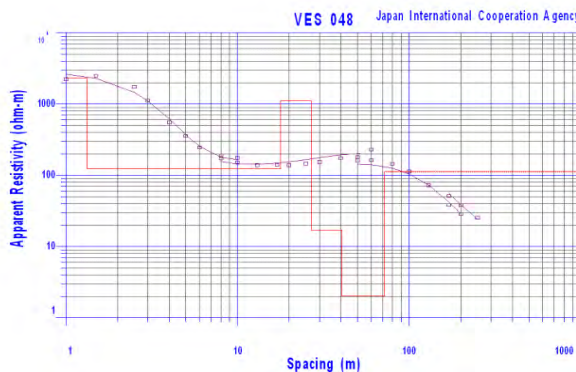
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	590.9	2.0	2.0	10.0	Qal
2	176.7	0.4	2.5	9.5	Qal
3	108.2	18.8	21.3	-9.3	Qal
4	558.5	13.7	35.0	-23.0	Qsd
5	11.4	21.4	56.5	-44.5	Tcy
6	52.4	20.3	76.8	-64.8	Mbr
7	29.1				Mbr
8					



VES 048

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	2320.5	1.3	1.3	8.7	Qal
2	122.7	16.5	17.9	-7.9	Qal
3	1119.2	9.0	26.9	-16.9	Qsd
4	17.1	13.7	40.6	-30.6	Tcy
5	2.0	31.4	72.0	-62.0	Tcy
6	112.4				Mbr
7					
8					



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

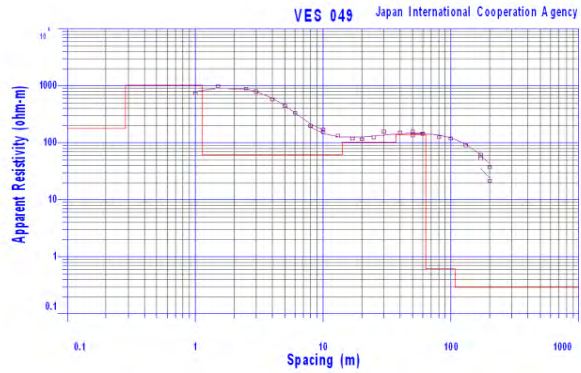
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (12/14)

VES 049

Layered Model

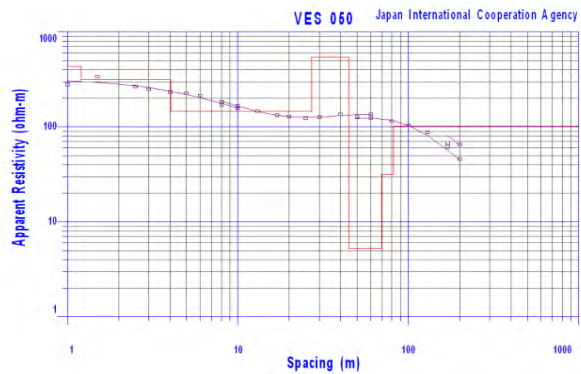
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	177.8	0.3	0.3	5.7	Qal
2	1021.4	0.9	1.1	4.9	Qal
3	62.4	12.9	14.1	-8.1	Qal
4	103.1	23.1	37.2	-31.2	Qsd
5	138.1	26.3	63.5	-57.5	Tcy
6	0.6	43.8	107.3	-101.3	Mbr
7	0.3				Mbr
8					



VES 050

Layered Model

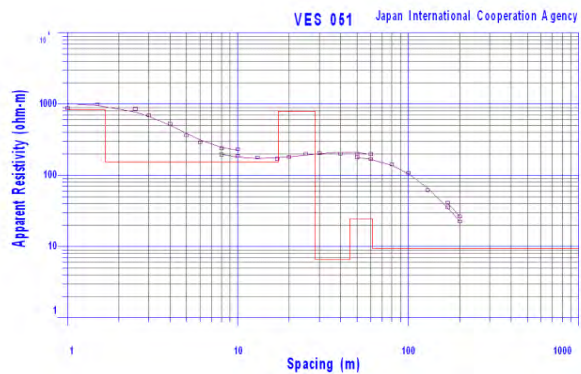
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	430.9	1.2	1.2	5.8	Qal
2	314.8	2.8	4.1	2.9	Qal
3	145.9	23.0	27.0	-20.0	Qal
4	547.4	17.5	44.6	-37.6	Qsd
5	5.2	25.2	69.8	-62.8	Tcy
6	32.0	12.1	81.9	-74.9	Mbr
7	101.5				Mbr
8					



VES 051

Layered Model

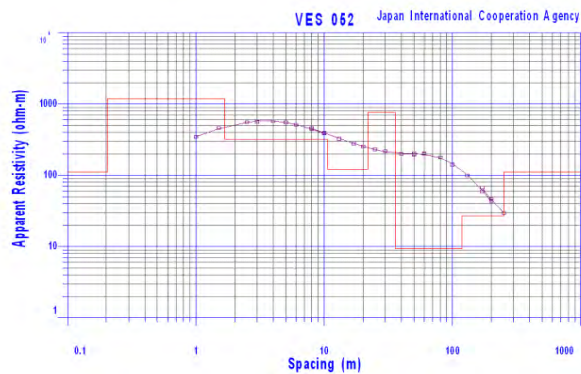
No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	837.8	1.7	1.7	9.3	Qal
2	155.3	15.6	17.3	-6.3	Qal
3	798.2	11.2	28.5	-17.5	Qsd
4	6.6	17.1	45.5	-34.5	Tcy
5	24.5	16.1	61.6	-50.6	Tcy
6	9.4				Mbr
7					
8					



VES 052

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	111.6	0.2	0.2	5.8	Qal
2	1204.2	1.5	1.7	4.3	Qal
3	323.0	9.0	10.7	-4.7	Qal
4	121.4	11.1	21.8	-15.8	Qal
5	763.6	14.2	36.0	-30.0	Qsd
6	9.4	82.3	118.3	-112.3	Tcy/Mbr
7	27.3	133.1	251.4	-245.4	Mbr
8	110.9				Mbr



Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

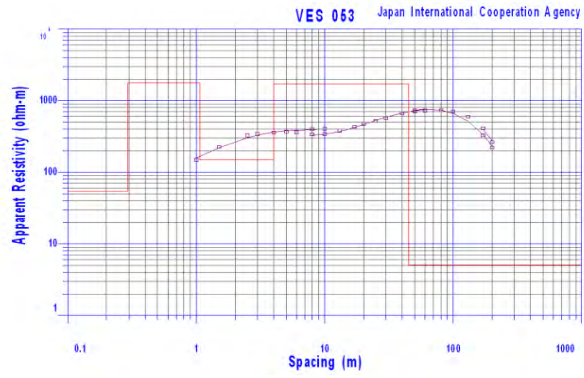
Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (13/14)

VES 053

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1	54.5	0.3	0.3	10.01	Qal
2	1754.4	0.8	1.1	9.23	Qal
3	148.1	2.9	4.0	6.299	Qal
4	1717.9	40.8	44.8	-34.49	Mbr
5	5.1				Mbr
6					
7					
8					



Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1					
2					
3					
4					
5					
6					
7					
8					

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1					
2					
3					
4					
5					
6					
7					
8					

Layered Model

No	A.Res. (Ω-m)	Thic. (m)	Depth (m)	Elev. (m)	Attrib.
1					
2					
3					
4					
5					
6					
7					
8					

Qal: Quaternary aluvial deposit
Tcy: Tertiary claystone

Qsd: Quaternary sand deposit
Mbr: Mesozoic bedrock

Figure 2.1 Analyzed Resistivity Layered Models (14/14)

Table 2.1 (1) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 001		Operator	-			
Date	30-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	359792		UTM-N (m)	1487026			
Elevation (m)	15		Azimuth (deg)	35			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1251.682	20.694	60.4853	456.1
2	1.5	0.2	17.36	581.574	20.694	28.1035	487.9
3	2.5	0.2	48.77	183.715	20.695	8.8773	432.9
4	3	0.2	70.37	116.313	20.694	5.6206	395.5
5	4	0.2	125.35	55.479	20.694	2.6809	336.1
6	5	0.2	196.04	31.833	20.694	1.5383	301.6
7	6	0.2	282.43	19.870	20.695	0.9601	271.2
8	8	0.2	502.34	8.861	20.695	0.4282	215.1
9	8	1	98.96	45.043	20.695	2.1765	215.4
10	10	0.2	785.08	4.639	20.695	0.2242	176.0
11	10	1	155.51	23.391	20.694	1.1303	175.8
12	13	1	263.89	11.155	20.695	0.5390	142.2
13	17	1	452.39	5.055	20.695	0.2443	110.5
14	20	1	626.75	3.014	20.695	0.1456	91.3
15	25	1	980.18	1.531	20.695	0.0740	72.5
16	30	1	1412.15	0.909	20.695	0.0439	62.0
17	40	1	2511.70	0.294	20.695	0.0142	35.7
18	50	1	3925.42	0.153	20.696	0.0074	29.0
19	50	10	376.99	1.600	20.696	0.0773	29.1
20	60	1	5653.30	0.133	20.696	0.0064	36.3
21	60	10	549.78	0.854	20.696	0.0413	22.7
22	80	10	989.60	0.446	20.696	0.0216	21.3
23	100	10	1555.09	0.316	20.696	0.0153	23.7
24	130	10	2638.94	0.180	20.696	0.0087	23.0
25	170	10	4523.89	0.142	20.695	0.0069	31.0
26	170	30	1466.08	0.295	20.696	0.0143	20.9
27	200	10	6267.48	0.073	20.696	0.0035	22.1
28	200	30	2047.27	0.158	20.696	0.0076	15.6
29	250	30	3225.37	0.084	20.697	0.0041	13.1

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (2) Resistivity Sounding Data Sheet

Province	Siem Riep	District	Siem Reap				
Site No.	VES 002	Operator	-				
Date	30-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	360506	UTM-N (m)	1483869				
Elevation (m)	13	Azimuth (deg)	85				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	822.038	20.692	39.7273	299.5
2	1.5	0.2	17.36	348.757	20.692	16.8547	292.6
3	2.5	0.2	48.77	104.571	20.691	5.0539	246.5
4	3	0.2	70.37	66.383	20.692	3.2081	225.8
5	4	0.2	125.35	32.166	20.692	1.5545	194.9
6	5	0.2	196.04	18.493	20.692	0.8937	175.2
7	6	0.2	282.43	12.256	20.692	0.5923	167.3
8	8	0.2	502.34	5.897	20.693	0.2850	143.2
9	8	1	98.96	30.580	20.693	1.4778	146.2
10	10	0.2	785.08	3.327	20.693	0.1608	126.2
11	10	1	155.51	16.944	20.692	0.8189	127.3
12	13	1	263.89	7.468	20.693	0.3609	95.2
13	17	1	452.39	3.238	20.693	0.1565	70.8
14	20	1	626.75	1.996	20.693	0.0965	60.5
15	25	1	980.18	1.199	20.693	0.0579	56.8
16	30	1	1412.15	0.728	20.693	0.0352	49.7
17	40	1	2511.70	0.263	20.694	0.0127	31.9
18	50	1	3925.42	0.138	20.694	0.0067	26.2
19	50	10	376.99	1.281	20.694	0.0619	23.3
20	60	1	5653.30	0.084	20.695	0.0041	22.9
21	60	10	549.78	0.743	20.695	0.0359	19.7
22	80	10	989.60	0.371	20.694	0.0179	17.7
23	100	10	1555.09	0.226	20.694	0.0109	17.0
24	130	10	2638.94	0.168	20.694	0.0081	21.4
25	170	10	4523.89	0.093	20.694	0.0045	20.3
26	170	30	1466.08	0.250	20.695	0.0121	17.7
27	200	10	6267.48	0.075	20.695	0.0036	22.7
28	200	30	2047.27	0.199	20.694	0.0096	19.7
29	250	30	3225.37	0.148	20.694	0.0072	23.1

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (3) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 003		Operator	-			
Date	27-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	359753		UTM-N (m)	1474761			
Elevation (m)	5		Azimuth (deg)	SW 45			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	109.418	20.696	5.2869	39.9
2	1.5	0.2	17.36	64.751	20.696	3.1287	54.3
3	2.5	0.2	48.77	29.593	20.697	1.4298	69.7
4	3	0.2	70.37	22.301	20.696	1.0776	75.8
5	4	0.2	125.35	14.466	20.697	0.6989	87.6
6	5	0.2	196.04	10.146	20.696	0.4902	96.1
7	6	0.2	282.43	7.268	20.697	0.3512	99.2
8	8	0.2	502.34	4.089	20.697	0.1976	99.2
9	8	1	98.96	17.795	20.697	0.8598	85.1
10	10	0.2	785.08	2.505	20.697	0.1210	95.0
11	10	1	155.51	10.863	20.697	0.5249	81.6
12	13	1	263.89	5.680	20.698	0.2744	72.4
13	17	1	452.39	2.794	20.697	0.1350	61.1
14	20	1	626.75	1.781	20.697	0.0861	53.9
15	25	1	980.18	0.879	20.698	0.0425	41.6
16	30	1	1412.15	0.531	20.697	0.0257	36.2
17	40	1	2511.70	0.191	20.697	0.0092	23.2
18	50	1	3925.42	0.080	20.697	0.0039	15.2
19	50	10	376.99	1.259	20.697	0.0608	22.9
20	60	1	5653.30	0.044	20.697	0.0021	12.0
21	60	10	549.78	0.647	20.697	0.0313	17.2
22	80	10	989.60	0.251	20.698	0.0121	12.0
23	100	10	1555.09	0.172	20.697	0.0083	12.9
24	130	10	2638.94	0.103	20.698	0.0050	13.1
25	170	10	4523.89	0.109	20.698	0.0053	23.8
26	170	30	1466.08	0.229	20.698	0.0111	16.2
27	200	10	6267.48	0.078	20.698	0.0038	23.6
28	200	30	2047.27	0.176	20.698	0.0085	17.4
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (4) Resistivity Sounding Data Sheet

Province	Siem Riep	District	Siem Reap				
Site No.	VES 004	Operator	-				
Date	26-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	361103	UTM-N (m)	1481194				
Elevation (m)	12	Azimuth (deg)	EW 180				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	770.302	20.692	37.2270	280.7
2	1.5	0.2	17.36	390.960	20.692	18.8943	328.0
3	2.5	0.2	48.77	151.154	20.692	7.3049	356.3
4	3	0.2	70.37	100.435	20.692	4.8538	341.6
5	4	0.2	125.35	49.373	20.693	2.3860	299.1
6	5	0.2	196.04	27.035	20.693	1.3065	256.1
7	6	0.2	282.43	16.520	20.693	0.7983	225.5
8	8	0.2	502.34	6.799	20.693	0.3286	165.1
9	8	1	98.96	35.493	20.693	1.7152	169.7
10	10	0.2	785.08	3.421	20.693	0.1653	129.8
11	10	1	155.51	17.592	20.694	0.8501	132.2
12	13	1	263.89	7.458	20.693	0.3604	95.1
13	17	1	452.39	3.226	20.694	0.1559	70.5
14	20	1	626.75	1.986	20.694	0.0960	60.1
15	25	1	980.18	1.119	20.694	0.0541	53.0
16	30	1	1412.15	0.668	20.694	0.0323	45.6
17	40	1	2511.70	0.264	20.694	0.0128	32.0
18	50	1	3925.42	0.124	20.694	0.0060	23.5
19	50	10	376.99	1.193	20.694	0.0576	21.7
20	60	1	5653.30	0.065	20.694	0.0031	17.8
21	60	10	549.78	0.600	20.695	0.0290	15.9
22	80	10	989.60	0.290	20.695	0.0140	13.9
23	100	10	1555.09	0.207	20.695	0.0100	15.6
24	130	10	2638.94	0.141	20.695	0.0068	18.0
25	170	10	4523.89	0.076	20.694	0.0037	16.6
26	170	30	1466.08	0.228	20.694	0.0110	16.2
27	200	10	6267.48	0.052	20.695	0.0025	15.7
28	200	30	2047.27	0.169	20.695	0.0082	16.7
29	250	30	3225.37	0.166	20.695	0.0080	25.9

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (5) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 005		Operator	-			
Date	26-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	361103		UTM-N (m)	1478109			
Elevation (m)	11		Azimuth (deg)	WN 30			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1017.207	20.694	49.1547	370.6
2	1.5	0.2	17.36	493.851	20.694	23.8645	414.3
3	2.5	0.2	48.77	166.228	20.694	8.0327	391.8
4	3	0.2	70.37	114.708	20.695	5.5428	390.0
5	4	0.2	125.35	59.488	20.695	2.8745	360.3
6	5	0.2	196.04	35.735	20.695	1.7267	338.5
7	6	0.2	282.43	23.034	20.695	1.1130	314.4
8	8	0.2	502.34	11.497	20.695	0.5555	279.1
9	8	1	98.96	60.607	20.695	2.9286	289.8
10	10	0.2	785.08	6.079	20.696	0.2937	230.6
11	10	1	155.51	31.645	20.695	1.5291	237.8
12	13	1	263.89	12.236	20.695	0.5913	156.0
13	17	1	452.39	4.772	20.695	0.2306	104.3
14	20	1	626.75	3.096	20.696	0.1496	93.8
15	25	1	980.18	1.535	20.695	0.0742	72.7
16	30	1	1412.15	0.812	20.696	0.0392	55.4
17	40	1	2511.70	0.260	20.696	0.0126	31.6
18	50	1	3925.42	0.112	20.696	0.0054	21.2
19	50	10	376.99	1.688	20.696	0.0816	30.7
20	60	1	5653.30	0.135	20.696	0.0065	36.9
21	60	10	549.78	0.957	20.696	0.0462	25.4
22	80	10	989.60	0.450	20.696	0.0217	21.5
23	100	10	1555.09	0.344	20.696	0.0166	25.8
24	130	10	2638.94	0.229	20.696	0.0111	29.2
25	170	10	4523.89	0.126	20.696	0.0061	27.5
26	170	30	1466.08	0.281	20.696	0.0136	19.9
27	200	10	6267.48	0.090	20.696	0.0043	27.3
28	200	30	2047.27	0.201	20.696	0.0097	19.9
29	250	30	3225.37	0.191	20.697	0.0092	29.8

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (6) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 006		Operator	-			
Date	23-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	361250		UTM-N (m)	1475983			
Elevation (m)	7		Azimuth (deg)				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	364.511	20.694	17.6143	132.8
2	1.5	0.2	17.36	206.731	20.695	9.9894	173.4
3	2.5	0.2	48.77	93.618	20.695	4.5237	220.6
4	3	0.2	70.37	67.621	20.695	3.2675	229.9
5	4	0.2	125.35	38.402	20.695	1.8556	232.6
6	5	0.2	196.04	23.936	20.695	1.1566	226.7
7	6	0.2	282.43	15.925	20.696	0.7695	217.3
8	8	0.2	502.34	7.648	20.696	0.3695	185.6
9	8	1	98.96	40.487	20.696	1.9563	193.6
10	10	0.2	785.08	4.027	20.696	0.1946	152.8
11	10	1	155.51	21.159	20.696	1.0224	159.0
12	13	1	263.89	8.777	20.696	0.4241	111.9
13	17	1	452.39	3.299	20.696	0.1594	72.1
14	20	1	626.75	1.811	20.696	0.0875	54.8
15	25	1	980.18	0.797	20.696	0.0385	37.7
16	30	1	1412.15	0.441	20.696	0.0213	30.1
17	40	1	2511.70	0.169	20.696	0.0082	20.5
18	50	1	3925.42	0.100	20.696	0.0048	19.0
19	50	10	376.99	0.853	20.696	0.0412	15.5
20	60	1	5653.30	0.073	20.697	0.0035	19.9
21	60	10	549.78	0.568	20.697	0.0274	15.1
22	80	10	989.60	0.244	20.696	0.0118	11.7
23	100	10	1555.09	0.139	20.697	0.0067	10.4
24	130	10	2638.94	0.091	20.696	0.0044	11.6
25	170	10	4523.89	0.065	20.697	0.0031	14.2
26	170	30	1466.08	0.151	20.697	0.0073	10.7
27	200	10	6267.48	0.062	20.696	0.0030	18.8
28	200	30	2047.27	0.146	20.696	0.0071	14.4
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (7) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 007		Operator	-			
Date	27-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	361531		UTM-N (m)	1474671			
Elevation (m)	9		Azimuth (deg)	20		Measured on the Levee of 0.7m high	
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	168.733	20.693	8.1541	61.5
2	1.5	0.2	17.36	93.703	20.694	4.5280	78.6
3	2.5	0.2	48.77	45.224	20.695	2.1853	106.6
4	3	0.2	70.37	34.981	20.694	1.6904	119.0
5	4	0.2	125.35	23.427	20.694	1.1321	141.9
6	5	0.2	196.04	15.174	20.694	0.7333	143.7
7	6	0.2	282.43	9.977	20.695	0.4821	136.2
8	8	0.2	502.34	5.076	20.695	0.2453	123.2
9	8	1	98.96	26.339	20.694	1.2728	126.0
10	10	0.2	785.08	2.768	20.695	0.1338	105.0
11	10	1	155.51	14.287	20.695	0.6904	107.4
12	13	1	263.89	6.615	20.695	0.3196	84.4
13	17	1	452.39	3.150	20.696	0.1522	68.9
14	20	1	626.75	2.011	20.695	0.0972	60.9
15	25	1	980.18	1.035	20.695	0.0500	49.0
16	30	1	1412.15	0.644	20.695	0.0311	43.9
17	40	1	2511.70	0.284	20.695	0.0137	34.5
18	50	1	3925.42	0.136	20.696	0.0066	25.8
19	50	10	376.99	1.417	20.695	0.0685	25.8
20	60	1	5653.30	0.082	20.695	0.0040	22.4
21	60	10	549.78	0.801	20.696	0.0387	21.3
22	80	10	989.60	0.295	20.696	0.0143	14.1
23	100	10	1555.09	0.157	20.696	0.0076	11.8
24	130	10	2638.94	0.102	20.696	0.0049	13.0
25	170	10	4523.89	0.053	20.695	0.0026	11.6
26	170	30	1466.08	0.131	20.696	0.0063	9.3
27	200	10	6267.48	0.036	20.696	0.0017	10.9
28	200	30	2047.27	0.091	20.696	0.0044	9.0
29	250	30	3225.37	0.059	20.696	0.0029	9.2

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (8) Resistivity Sounding Data Sheet

Province	Siem Riep	District	Siem Reap				
Site No.	VES 008	Operator	-				
Date	23-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	362933	UTM-N (m)	1480258				
Elevation (m)	13	Azimuth (deg)	20				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1241.351	20.691	59.9947	452.4
2	1.5	0.2	17.36	577.667	20.692	27.9174	484.6
3	2.5	0.2	48.77	135.833	20.692	6.5645	320.2
4	3	0.2	70.37	77.393	20.691	3.7404	263.2
5	4	0.2	125.35	29.244	20.692	1.4133	177.2
6	5	0.2	196.04	13.623	20.692	0.6584	129.1
7	6	0.2	282.43	7.810	20.692	0.3774	106.6
8	8	0.2	502.34	3.425	20.692	0.1655	83.1
9	8	1	98.96	13.822	20.693	0.6680	66.1
10	10	0.2	785.08	1.893	20.692	0.0915	71.8
11	10	1	155.51	7.053	20.693	0.3408	53.0
12	13	1	263.89	3.472	20.692	0.1678	44.3
13	17	1	452.39	1.987	20.693	0.0960	43.4
14	20	1	626.75	1.428	20.693	0.0690	43.3
15	25	1	980.18	0.880	20.693	0.0425	41.7
16	30	1	1412.15	0.564	20.693	0.0273	38.5
17	40	1	2511.70	0.287	20.693	0.0139	34.8
18	50	1	3925.42	0.144	20.694	0.0070	27.3
19	50	10	376.99	1.378	20.693	0.0666	25.1
20	60	1	5653.30	0.109	20.694	0.0053	29.8
21	60	10	549.78	0.806	20.694	0.0389	21.4
22	80	10	989.60	0.341	20.694	0.0165	16.3
23	100	10	1555.09	0.206	20.694	0.0100	15.5
24	130	10	2638.94	0.097	20.694	0.0047	12.4
25	170	10	4523.89	0.102	20.694	0.0049	22.3
26	170	30	1466.08	0.249	20.694	0.0120	17.6
27	200	10	6267.48	0.082	20.694	0.0040	24.8
28	200	30	2047.27	0.188	20.695	0.0091	18.6
29	250	30	3225.37	0.148	20.694	0.0072	23.1

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (9) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 009		Operator	-			
Date	23-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	362982		UTM-N (m)	1477799			
Elevation (m)	11		Azimuth (deg)	20			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	691.719	20.695	33.4245	252.0
2	1.5	0.2	17.36	359.079	20.695	17.3510	301.2
3	2.5	0.2	48.77	119.488	20.695	5.7738	281.6
4	3	0.2	70.37	80.294	20.695	3.8799	273.0
5	4	0.2	125.35	38.363	20.696	1.8536	232.4
6	5	0.2	196.04	21.725	20.695	1.0498	205.8
7	6	0.2	282.43	12.775	20.696	0.6173	174.3
8	8	0.2	502.34	5.026	20.696	0.2428	122.0
9	8	1	98.96	26.934	20.696	1.3014	128.8
10	10	0.2	785.08	2.232	20.696	0.1078	84.7
11	10	1	155.51	11.961	20.696	0.5779	89.9
12	13	1	263.89	5.504	20.696	0.2659	70.2
13	17	1	452.39	2.975	20.696	0.1437	65.0
14	20	1	626.75	2.095	20.696	0.1012	63.4
15	25	1	980.18	1.279	20.696	0.0618	60.6
16	30	1	1412.15	0.832	20.696	0.0402	56.8
17	40	1	2511.70	0.366	20.696	0.0177	44.4
18	50	1	3925.42	0.188	20.696	0.0091	35.7
19	50	10	376.99	1.821	20.696	0.0880	33.2
20	60	1	5653.30	0.154	20.696	0.0074	42.1
21	60	10	549.78	1.052	20.697	0.0508	27.9
22	80	10	989.60	0.423	20.696	0.0204	20.2
23	100	10	1555.09	0.200	20.696	0.0097	15.0
24	130	10	2638.94	0.103	20.697	0.0050	13.1
25	170	10	4523.89	0.085	20.697	0.0041	18.6
26	170	30	1466.08	0.208	20.697	0.0100	14.7
27	200	10	6267.48	0.085	20.696	0.0041	25.7
28	200	30	2047.27	0.173	20.697	0.0084	17.1
29	250	30	3225.37	0.131	20.697	0.0063	20.4

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (10) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 010		Operator	-			
Date	23-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	362887		UTM-N (m)	1475537			
Elevation (m)	9		Azimuth (deg)	30			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	254.906	20.696	12.3167	92.9
2	1.5	0.2	17.36	158.352	20.696	7.6513	132.8
3	2.5	0.2	48.77	81.479	20.695	3.9371	192.0
4	3	0.2	70.37	61.047	20.696	2.9497	207.6
5	4	0.2	125.35	37.660	20.696	1.8197	228.1
6	5	0.2	196.04	25.265	20.696	1.2208	239.3
7	6	0.2	282.43	17.830	20.696	0.8615	243.3
8	8	0.2	502.34	9.044	20.696	0.4370	219.5
9	8	1	98.96	45.969	20.697	2.2210	219.8
10	10	0.2	785.08	5.198	20.697	0.2511	197.2
11	10	1	155.51	26.278	20.697	1.2697	197.4
12	13	1	263.89	11.847	20.697	0.5724	151.1
13	17	1	452.39	4.934	20.697	0.2384	107.8
14	20	1	626.75	2.905	20.697	0.1404	88.0
15	25	1	980.18	1.333	20.697	0.0644	63.1
16	30	1	1412.15	0.700	20.697	0.0338	47.8
17	40	1	2511.70	0.238	20.697	0.0115	28.9
18	50	1	3925.42	0.113	20.697	0.0055	21.4
19	50	10	376.99	1.263	20.697	0.0610	23.0
20	60	1	5653.30	0.060	20.697	0.0029	16.4
21	60	10	549.78	0.659	20.697	0.0318	17.5
22	80	10	989.60	0.288	20.697	0.0139	13.8
23	100	10	1555.09	0.158	20.697	0.0076	11.9
24	130	10	2638.94	0.082	20.697	0.0040	10.5
25	170	10	4523.89	0.054	20.697	0.0026	11.8
26	170	30	1466.08	0.174	20.696	0.0084	12.3
27	200	10	6267.48	0.049	20.697	0.0024	14.8
28	200	30	2047.27	0.136	20.697	0.0066	13.5
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (11) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 011		Operator	-			
Date	27-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	362818		UTM-N (m)	1473600			
Elevation (m)	7		Azimuth (deg)	20		Measured on the Levee of 0.7m high	
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	203.834	20.696	9.8490	74.3
2	1.5	0.2	17.36	102.922	20.696	4.9730	86.3
3	2.5	0.2	48.77	44.164	20.696	2.1339	104.1
4	3	0.2	70.37	31.038	20.696	1.4997	105.5
5	4	0.2	125.35	17.591	20.695	0.8500	106.5
6	5	0.2	196.04	11.095	20.696	0.5361	105.1
7	6	0.2	282.43	7.330	20.696	0.3542	100.0
8	8	0.2	502.34	3.651	20.696	0.1764	88.6
9	8	1	98.96	18.280	20.696	0.8833	87.4
10	10	0.2	785.08	2.060	20.696	0.0995	78.1
11	10	1	155.51	10.272	20.697	0.4963	77.2
12	13	1	263.89	5.052	20.696	0.2441	64.4
13	17	1	452.39	2.499	20.696	0.1207	54.6
14	20	1	626.75	1.599	20.697	0.0773	48.4
15	25	1	980.18	0.888	20.696	0.0429	42.1
16	30	1	1412.15	0.527	20.697	0.0255	36.0
17	40	1	2511.70	0.233	20.697	0.0113	28.3
18	50	1	3925.42	0.121	20.697	0.0058	22.9
19	50	10	376.99	1.084	20.697	0.0524	19.7
20	60	1	5653.30	0.082	20.697	0.0040	22.4
21	60	10	549.78	0.618	20.697	0.0299	16.4
22	80	10	989.60	0.257	20.697	0.0124	12.3
23	100	10	1555.09	0.136	20.697	0.0066	10.2
24	130	10	2638.94	0.071	20.697	0.0034	9.1
25	170	10	4523.89	0.039	20.697	0.0019	8.5
26	170	30	1466.08	0.150	20.697	0.0072	10.6
27	200	10	6267.48	0.047	20.697	0.0023	14.2
28	200	30	2047.27	0.116	20.697	0.0056	11.5
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuis is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (12) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 012		Operator	-			
Date	24-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	365136		UTM-N (m)	1476364			
Elevation (m)	11		Azimuth (deg)	105		Measured on the land Stripe of 0.6 m hig	
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2238.686	20.691	108.1961	815.8
2	1.5	0.2	17.36	1011.336	20.691	48.8781	848.5
3	2.5	0.2	48.77	280.305	20.691	13.5472	660.7
4	3	0.2	70.37	176.069	20.691	8.5094	598.8
5	4	0.2	125.35	62.417	20.692	3.0165	378.1
6	5	0.2	196.04	25.386	20.692	1.2269	240.5
7	6	0.2	282.43	12.989	20.692	0.6277	177.3
8	8	0.2	502.34	5.153	20.692	0.2490	125.1
9	8	1	98.96	24.672	20.692	1.1923	118.0
10	10	0.2	785.08	3.016	20.693	0.1457	114.4
11	10	1	155.51	14.889	20.692	0.7196	111.9
12	13	1	263.89	8.860	20.693	0.4282	113.0
13	17	1	452.39	4.467	20.693	0.2159	97.7
14	20	1	626.75	2.648	20.693	0.1280	80.2
15	25	1	980.18	1.360	20.693	0.0657	64.4
16	30	1	1412.15	0.803	20.693	0.0388	54.8
17	40	1	2511.70	0.333	20.693	0.0161	40.4
18	50	1	3925.42	0.167	20.693	0.0081	31.7
19	50	10	376.99	1.287	20.694	0.0622	23.4
20	60	1	5653.30	0.104	20.694	0.0050	28.4
21	60	10	549.78	0.717	20.694	0.0346	19.0
22	80	10	989.60	0.317	20.693	0.0153	15.2
23	100	10	1555.09	0.162	20.694	0.0078	12.2
24	130	10	2638.94	0.098	20.694	0.0047	12.5
25	170	10	4523.89	0.060	20.694	0.0029	13.1
26	170	30	1466.08	0.164	20.694	0.0079	11.6
27	200	10	6267.48	0.048	20.694	0.0023	14.5
28	200	30	2047.27	0.136	20.695	0.0066	13.5
29	250	30	3225.37	0.112	20.694	0.0054	17.5

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (13) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 013		Operator	-			
Date	25-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	365221		UTM-N (m)	1474050			
Elevation (m)	7		Azimuth (deg)	20			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	711.112	20.692	34.3665	259.1
2	1.5	0.2	17.36	387.116	20.693	18.7076	324.8
3	2.5	0.2	48.77	144.996	20.693	7.0070	341.7
4	3	0.2	70.37	95.593	20.693	4.6196	325.1
5	4	0.2	125.35	47.999	20.693	2.3196	290.8
6	5	0.2	196.04	25.159	20.693	1.2158	238.3
7	6	0.2	282.43	14.448	20.694	0.6982	197.2
8	8	0.2	502.34	5.256	20.694	0.2540	127.6
9	8	1	98.96	28.333	20.694	1.3691	135.5
10	10	0.2	785.08	2.265	20.693	0.1095	85.9
11	10	1	155.51	12.017	20.694	0.5807	90.3
12	13	1	263.89	4.462	20.694	0.2156	56.9
13	17	1	452.39	2.401	20.694	0.1160	52.5
14	20	1	626.75	1.822	20.694	0.0880	55.2
15	25	1	980.18	1.176	20.694	0.0568	55.7
16	30	1	1412.15	0.891	20.694	0.0431	60.8
17	40	1	2511.70	0.366	20.694	0.0177	44.4
18	50	1	3925.42	0.168	20.695	0.0081	31.9
19	50	10	376.99	1.925	20.695	0.0930	35.1
20	60	1	5653.30	0.086	20.695	0.0042	23.5
21	60	10	549.78	0.981	20.695	0.0474	26.1
22	80	10	989.60	0.369	20.695	0.0178	17.6
23	100	10	1555.09	0.204	20.695	0.0099	15.3
24	130	10	2638.94	0.089	20.695	0.0043	11.3
25	170	10	4523.89	0.068	20.695	0.0033	14.9
26	170	30	1466.08	0.170	20.695	0.0082	12.0
27	200	10	6267.48	0.025	20.695	0.0012	7.6
28	200	30	2047.27	0.098	20.695	0.0047	9.7
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (14) Resistivity Sounding Data Sheet

Province	Siem Riep	District	Siem Reap				
Site No.	VES 014	Operator	-				
Date	22-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	365206	UTM-N (m)	1471018				
Elevation (m)	4	Azimuth (deg)	40				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	133.403	20.692	6.4471	48.6
2	1.5	0.2	17.36	73.752	20.692	3.5643	61.9
3	2.5	0.2	48.77	31.114	20.692	1.5037	73.3
4	3	0.2	70.37	21.558	20.693	1.0418	73.3
5	4	0.2	125.35	11.224	20.693	0.5424	68.0
6	5	0.2	196.04	6.384	20.693	0.3085	60.5
7	6	0.2	282.43	3.937	20.693	0.1903	53.7
8	8	0.2	502.34	1.723	20.693	0.0833	41.8
9	8	1	98.96	8.334	20.693	0.4027	39.9
10	10	0.2	785.08	0.927	20.693	0.0448	35.2
11	10	1	155.51	4.471	20.693	0.2161	33.6
12	13	1	263.89	2.253	20.694	0.1089	28.7
13	17	1	452.39	1.227	20.694	0.0593	26.8
14	20	1	626.75	0.809	20.693	0.0391	24.5
15	25	1	980.18	0.492	20.694	0.0238	23.3
16	30	1	1412.15	0.311	20.694	0.0150	21.2
17	40	1	2511.70	0.141	20.694	0.0068	17.1
18	50	1	3925.42	0.077	20.694	0.0037	14.6
19	50	10	376.99	0.939	20.694	0.0454	17.1
20	60	1	5653.30	0.073	20.695	0.0035	19.9
21	60	10	549.78	0.622	20.695	0.0301	16.5
22	80	10	989.60	0.387	20.695	0.0187	18.5
23	100	10	1555.09	0.208	20.695	0.0101	15.6
24	130	10	2638.94	0.130	20.695	0.0063	16.6
25	170	10	4523.89	0.051	20.695	0.0025	11.1
26	170	30	1466.08	0.118	20.695	0.0057	8.4
27	200	10	6267.48	0.022	20.695	0.0011	6.7
28	200	30	2047.27	0.089	20.695	0.0043	8.8
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (15) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 015		Operator	-			
Date	24-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	367205		UTM-N (m)	1474897			
Elevation (m)	8.3		Azimuth (deg)	25			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	156.751	20.694	7.5747	57.1
2	1.5	0.2	17.36	104.030	20.694	5.0271	87.3
3	2.5	0.2	48.77	45.176	20.694	2.1830	106.5
4	3	0.2	70.37	33.089	20.695	1.5989	112.5
5	4	0.2	125.35	15.758	20.695	0.7614	95.4
6	5	0.2	196.04	7.201	20.695	0.3480	68.2
7	6	0.2	282.43	4.066	20.695	0.1965	55.5
8	8	0.2	502.34	1.851	20.695	0.0894	44.9
9	8	1	98.96	11.755	20.695	0.5680	56.2
10	10	0.2	785.08	1.271	20.695	0.0614	48.2
11	10	1	155.51	7.554	20.695	0.3650	56.8
12	13	1	263.89	4.251	20.695	0.2054	54.2
13	17	1	452.39	2.076	20.696	0.1003	45.4
14	20	1	626.75	1.359	20.696	0.0657	41.2
15	25	1	980.18	0.795	20.696	0.0384	37.7
16	30	1	1412.15	0.493	20.696	0.0238	33.6
17	40	1	2511.70	0.236	20.695	0.0114	28.6
18	50	1	3925.42	0.133	20.696	0.0064	25.2
19	50	10	376.99	2.092	20.696	0.1011	38.1
20	60	1	5653.30	0.080	20.696	0.0039	21.9
21	60	10	549.78	1.330	20.696	0.0643	35.3
22	80	10	989.60	0.554	20.696	0.0268	26.5
23	100	10	1555.09	0.307	20.696	0.0148	23.1
24	130	10	2638.94	0.178	20.696	0.0086	22.7
25	170	10	4523.89	0.096	20.696	0.0046	21.0
26	170	30	1466.08	0.338	20.696	0.0163	23.9
27	200	10	6267.48	0.058	20.696	0.0028	17.6
28	200	30	2047.27	0.219	20.696	0.0106	21.7
29	250	30	3225.37	0.151	20.696	0.0073	23.5

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (16) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 016		Operator	-			
Date	22-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	367085		UTM-N (m)	1472104			
Elevation (m)	5.5		Azimuth (deg)	0			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	470.770	20.695	22.7480	171.5
2	1.5	0.2	17.36	227.233	20.695	10.9801	190.6
3	2.5	0.2	48.77	71.481	20.695	3.4540	168.5
4	3	0.2	70.37	44.774	20.695	2.1635	152.2
5	4	0.2	125.35	21.431	20.696	1.0355	129.8
6	5	0.2	196.04	13.143	20.695	0.6351	124.5
7	6	0.2	282.43	8.699	20.696	0.4203	118.7
8	8	0.2	502.34	5.058	20.696	0.2444	122.8
9	8	1	98.96	29.088	20.696	1.4055	139.1
10	10	0.2	785.08	3.195	20.696	0.1544	121.2
11	10	1	155.51	18.296	20.696	0.8840	137.5
12	13	1	263.89	10.870	20.696	0.5252	138.6
13	17	1	452.39	5.977	20.696	0.2888	130.7
14	20	1	626.75	3.950	20.696	0.1909	119.6
15	25	1	980.18	2.120	20.696	0.1024	100.4
16	30	1	1412.15	1.265	20.697	0.0611	86.3
17	40	1	2511.70	0.461	20.697	0.0223	55.9
18	50	1	3925.42	0.209	20.697	0.0101	39.6
19	50	10	376.99	1.642	20.696	0.0793	29.9
20	60	1	5653.30	0.125	20.697	0.0060	34.1
21	60	10	549.78	0.904	20.697	0.0437	24.0
22	80	10	989.60	0.393	20.697	0.0190	18.8
23	100	10	1555.09	0.185	20.697	0.0089	13.9
24	130	10	2638.94	0.094	20.697	0.0045	12.0
25	170	10	4523.89	0.042	20.697	0.0020	9.2
26	170	30	1466.08	0.133	20.697	0.0064	9.4
27	200	10	6267.48	0.035	20.697	0.0017	10.6
28	200	30	2047.27	0.062	20.697	0.0030	6.1
29	250	30	3225.37	0.053	20.698	0.0026	8.3

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (17) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 017		Operator	-			
Date	9-Jul-21		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	367200		UTM-N (m)	1469500			
Elevation (m)	3		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	166.204	20.694	8.0315	60.6
2	1.5	0.2	17.36	83.913	20.694	4.0549	70.4
3	2.5	0.2	48.77	30.051	20.694	1.4522	70.8
4	3	0.2	70.37	20.347	20.694	0.9832	69.2
5	4	0.2	125.35	9.769	20.694	0.4721	59.2
6	5	0.2	196.04	5.306	20.695	0.2564	50.3
7	6	0.2	282.43	3.243	20.694	0.1567	44.3
8	8	0.2	502.34	1.335	20.695	0.0645	32.4
9	8	1	98.96	6.581	20.695	0.3180	31.5
10	10	0.2	785.08	0.729	20.695	0.0352	27.7
11	10	1	155.51	3.660	20.695	0.1769	27.5
12	13	1	263.89	1.789	20.695	0.0864	22.8
13	17	1	452.39	0.943	20.695	0.0456	20.6
14	20	1	626.75	0.695	20.696	0.0336	21.0
15	25	1	980.18	0.457	20.696	0.0221	21.6
16	30	1	1412.15	0.336	20.696	0.0162	22.9
17	40	1	2511.70	0.178	20.695	0.0086	21.6
18	50	1	3925.42	0.097	20.696	0.0047	18.4
19	50	10	376.99	1.270	20.695	0.0614	23.1
20	60	1	5653.30	0.060	20.695	0.0029	16.4
21	60	10	549.78	0.704	20.696	0.0340	18.7
22	80	10	989.60	0.291	20.696	0.0141	13.9
23	100	10	1555.09	0.153	20.696	0.0074	11.5
24	130	10	2638.94	0.081	20.696	0.0039	10.3
25	170	10	4523.89	0.051	20.696	0.0025	11.1
26	170	30	1466.08	0.093	20.696	0.0045	6.6
27	200	10	6267.48	0.033	20.696	0.0016	10.0
28	200	30	2047.27	0.063	20.696	0.0030	6.2
29	250	30	3225.37	0.036	20.696	0.0017	5.6

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (18) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 018		Operator	-			
Date	24-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	369073		UTM-N (m)	1474180			
Elevation (m)	8.2		Azimuth (deg)	120			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	796.764	20.695	38.5003	290.3
2	1.5	0.2	17.36	364.835	20.695	17.6291	306.0
3	2.5	0.2	48.77	113.174	20.695	5.4687	266.7
4	3	0.2	70.37	70.267	20.696	3.3952	238.9
5	4	0.2	125.35	32.006	20.696	1.5465	193.9
6	5	0.2	196.04	15.344	20.696	0.7414	145.3
7	6	0.2	282.43	8.948	20.696	0.4324	122.1
8	8	0.2	502.34	3.859	20.696	0.1865	93.7
9	8	1	98.96	21.391	20.696	1.0336	102.3
10	10	0.2	785.08	2.324	20.696	0.1123	88.2
11	10	1	155.51	12.716	20.696	0.6144	95.5
12	13	1	263.89	7.193	20.697	0.3475	91.7
13	17	1	452.39	4.081	20.697	0.1972	89.2
14	20	1	626.75	2.902	20.697	0.1402	87.9
15	25	1	980.18	1.817	20.696	0.0878	86.1
16	30	1	1412.15	1.179	20.696	0.0570	80.4
17	40	1	2511.70	0.744	20.697	0.0359	90.3
18	50	1	3925.42	0.438	20.696	0.0212	83.1
19	50	10	376.99	5.314	20.697	0.2568	96.8
20	60	1	5653.30	0.284	20.697	0.0137	77.6
21	60	10	549.78	3.413	20.697	0.1649	90.7
22	80	10	989.60	1.793	20.697	0.0866	85.7
23	100	10	1555.09	0.853	20.697	0.0412	64.1
24	130	10	2638.94	0.335	20.697	0.0162	42.7
25	170	10	4523.89	0.136	20.697	0.0066	29.7
26	170	30	1466.08	0.369	20.697	0.0178	26.1
27	200	10	6267.48	0.091	20.695	0.0044	27.6
28	200	30	2047.27	0.230	20.697	0.0111	22.8
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (19) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 019		Operator	-			
Date	20-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	369015		UTM-N (m)	1472438			
Elevation (m)	6.9		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1809.584	20.694	87.4449	659.3
2	1.5	0.2	17.36	671.140	20.694	32.4316	563.0
3	2.5	0.2	48.77	140.936	20.694	6.8105	332.1
4	3	0.2	70.37	79.397	20.695	3.8365	270.0
5	4	0.2	125.35	30.178	20.695	1.4582	182.8
6	5	0.2	196.04	14.496	20.695	0.7005	137.3
7	6	0.2	282.43	7.667	20.695	0.3705	104.6
8	8	0.2	502.34	3.410	20.695	0.1648	82.8
9	8	1	98.96	17.418	20.695	0.8417	83.3
10	10	0.2	785.08	2.184	20.696	0.1055	82.8
11	10	1	155.51	10.846	20.695	0.5241	81.5
12	13	1	263.89	6.499	20.696	0.3140	82.9
13	17	1	452.39	3.910	20.696	0.1889	85.5
14	20	1	626.75	2.849	20.696	0.1377	86.3
15	25	1	980.18	1.639	20.696	0.0792	77.6
16	30	1	1412.15	0.970	20.696	0.0469	66.2
17	40	1	2511.70	0.479	20.695	0.0231	58.1
18	50	1	3925.42	0.286	20.695	0.0138	54.2
19	50	10	376.99	2.710	20.696	0.1309	49.4
20	60	1	5653.30	0.184	20.696	0.0089	50.3
21	60	10	549.78	1.576	20.696	0.0761	41.9
22	80	10	989.60	0.733	20.695	0.0354	35.1
23	100	10	1555.09	0.332	20.696	0.0160	24.9
24	130	10	2638.94	0.172	20.696	0.0083	21.9
25	170	10	4523.89	0.051	20.696	0.0025	11.1
26	170	30	1466.08	0.219	20.696	0.0106	15.5
27	200	10	6267.48	0.072	20.696	0.0035	21.8
28	200	30	2047.27	0.158	20.696	0.0076	15.6
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (20) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 020		Operator	-			
Date	21-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	369002		UTM-N (m)	1470599			
Elevation (m)	5		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	169.881	20.691	8.2104	61.9
2	1.5	0.2	17.36	72.731	20.692	3.5149	61.0
3	2.5	0.2	48.77	17.379	20.691	0.8399	41.0
4	3	0.2	70.37	10.341	20.691	0.4998	35.2
5	4	0.2	125.35	4.993	20.692	0.2413	30.2
6	5	0.2	196.04	3.116	20.692	0.1506	29.5
7	6	0.2	282.43	2.249	20.692	0.1087	30.7
8	8	0.2	502.34	1.271	20.692	0.0614	30.9
9	8	1	98.96	6.220	20.693	0.3006	29.7
10	10	0.2	785.08	0.786	20.692	0.0380	29.8
11	10	1	155.51	3.787	20.692	0.1830	28.5
12	13	1	263.89	2.019	20.693	0.0976	25.7
13	17	1	452.39	1.454	20.693	0.0703	31.8
14	20	1	626.75	1.172	20.693	0.0566	35.5
15	25	1	980.18	0.744	20.693	0.0360	35.2
16	30	1	1412.15	0.502	20.693	0.0243	34.3
17	40	1	2511.70	0.235	20.693	0.0114	28.5
18	50	1	3925.42	0.163	20.693	0.0079	30.9
19	50	10	376.99	2.172	20.693	0.1050	39.6
20	60	1	5653.30	0.097	20.693	0.0047	26.5
21	60	10	549.78	1.271	20.693	0.0614	33.8
22	80	10	989.60	0.649	20.694	0.0314	31.0
23	100	10	1555.09	0.299	20.693	0.0144	22.5
24	130	10	2638.94	0.141	20.693	0.0068	18.0
25	170	10	4523.89	0.068	20.694	0.0033	14.9
26	170	30	1466.08	0.239	20.694	0.0115	16.9
27	200	10	6267.48	0.052	20.694	0.0025	15.7
28	200	30	2047.27	0.168	20.694	0.0081	16.6
29	250	30	3225.37	0.100	20.694	0.0048	15.6

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (21) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	EVS -021		Operator	-			
Date	20-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	369005		UTM-N (m)	1468613			
Elevation (m)	3		Azimuth (deg)	-		Measured in rice paddle	
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	33.893	20.693	1.6379	12.3
2	1.5	0.2	17.36	18.874	20.694	0.9121	15.8
3	2.5	0.2	48.77	8.038	20.693	0.3884	18.9
4	3	0.2	70.37	6.002	20.693	0.2900	20.4
5	4	0.2	125.35	3.562	20.694	0.1721	21.6
6	5	0.2	196.04	2.360	20.694	0.1140	22.4
7	6	0.2	282.43	1.605	20.694	0.0776	21.9
8	8	0.2	502.34	0.906	20.694	0.0438	22.0
9	8	1	98.96	4.514	20.694	0.2181	21.6
10	10	0.2	785.08	0.596	20.694	0.0288	22.6
11	10	1	155.51	2.988	20.695	0.1444	22.5
12	13	1	263.89	1.814	20.694	0.0877	23.1
13	17	1	452.39	1.096	20.694	0.0530	24.0
14	20	1	626.75	0.856	20.695	0.0414	25.9
15	25	1	980.18	0.648	20.695	0.0313	30.7
16	30	1	1412.15	0.498	20.695	0.0241	34.0
17	40	1	2511.70	0.271	20.695	0.0131	32.9
18	50	1	3925.42	0.164	20.695	0.0079	31.1
19	50	10	376.99	1.902	20.695	0.0919	34.6
20	60	1	5653.30	0.113	20.695	0.0055	30.9
21	60	10	549.78	1.331	20.696	0.0643	35.4
22	80	10	989.60	0.660	20.695	0.0319	31.6
23	100	10	1555.09	0.326	20.696	0.0158	24.5
24	130	10	2638.94	0.147	20.695	0.0071	18.7
25	170	10	4523.89	0.061	20.695	0.0029	13.3
26	170	30	1466.08	0.229	20.695	0.0111	16.2
27	200	10	6267.48	0.044	20.695	0.0021	13.3
28	200	30	2047.27	0.160	20.696	0.0077	15.8
29	250	30	3225.37	0.107	20.696	0.0052	16.7

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuis is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (22) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 022		Operator	-			
Date	21-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	370991		UTM-N (m)	1472886			
Elevation (m)	8.1		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2294.592	20.694	110.8820	836.1
2	1.5	0.2	17.36	1070.960	20.695	51.7497	898.4
3	2.5	0.2	48.77	273.082	20.695	13.1956	643.5
4	3	0.2	70.37	167.301	20.695	8.0841	568.9
5	4	0.2	125.35	68.372	20.696	3.3036	414.1
6	5	0.2	196.04	37.358	20.696	1.8051	353.9
7	6	0.2	282.43	21.102	20.695	1.0197	288.0
8	8	0.2	502.34	8.400	20.696	0.4059	203.9
9	8	1	98.96	48.515	20.696	2.3442	232.0
10	10	0.2	785.08	4.491	20.695	0.2170	170.4
11	10	1	155.51	25.351	20.696	1.2249	190.5
12	13	1	263.89	12.756	20.696	0.6164	162.6
13	17	1	452.39	7.075	20.696	0.3419	154.7
14	20	1	626.75	5.096	20.696	0.2462	154.3
15	25	1	980.18	3.377	20.696	0.1632	159.9
16	30	1	1412.15	2.435	20.696	0.1177	166.1
17	40	1	2511.70	1.153	20.697	0.0557	139.9
18	50	1	3925.42	0.681	20.696	0.0329	129.2
19	50	10	376.99	6.175	20.697	0.2984	112.5
20	60	1	5653.30	0.369	20.696	0.0178	100.8
21	60	10	549.78	3.900	20.697	0.1884	103.6
22	80	10	989.60	1.345	20.697	0.0650	64.3
23	100	10	1555.09	0.573	20.697	0.0277	43.1
24	130	10	2638.94	0.290	20.697	0.0140	37.0
25	170	10	4523.89	0.118	20.697	0.0057	25.8
26	170	30	1466.08	0.282	20.696	0.0136	20.0
27	200	10	6267.48	0.092	20.697	0.0044	27.9
28	200	30	2047.27	0.354	20.697	0.0171	35.0
29	250	30	3225.37	0.444	20.697	0.0215	69.2

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (23) Resistivity Sounding Data Sheet

Province	Siem Reap		District	Siem Reap			
Site No.	VES 023		Operator	-			
Date	20-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	370001		UTM-N (m)	1469512			
Elevation (m)	5.4		Azimuth (deg)	-	Measured in rice paddle		
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	215.316	20.691	10.4063	78.5
2	1.5	0.2	17.36	113.081	20.693	5.4647	94.9
3	2.5	0.2	48.77	44.082	20.693	2.1303	103.9
4	3	0.2	70.37	31.067	20.693	1.5013	105.6
5	4	0.2	125.35	16.923	20.692	0.8179	102.5
6	5	0.2	196.04	10.261	20.693	0.4959	97.2
7	6	0.2	282.43	6.596	20.693	0.3188	90.0
8	8	0.2	502.34	3.467	20.693	0.1675	84.2
9	8	1	98.96	18.485	20.693	0.8933	88.4
10	10	0.2	785.08	2.044	20.693	0.0988	77.5
11	10	1	155.51	10.734	20.693	0.5187	80.7
12	13	1	263.89	5.760	20.693	0.2784	73.5
13	17	1	452.39	3.641	20.694	0.1759	79.6
14	20	1	626.75	2.881	20.693	0.1392	87.3
15	25	1	980.18	1.673	20.694	0.0808	79.2
16	30	1	1412.15	1.353	20.694	0.0654	92.3
17	40	1	2511.70	0.795	20.694	0.0384	96.5
18	50	1	3925.42	0.380	20.694	0.0184	72.1
19	50	10	376.99	3.919	20.694	0.1894	71.4
20	60	1	5653.30	0.249	20.694	0.0120	68.0
21	60	10	549.78	2.513	20.694	0.1214	66.8
22	80	10	989.60	1.236	20.694	0.0597	59.1
23	100	10	1555.09	0.636	20.694	0.0307	47.8
24	130	10	2638.94	0.273	20.694	0.0132	34.8
25	170	10	4523.89	0.126	20.695	0.0061	27.5
26	170	30	1466.08	0.349	20.695	0.0169	24.7
27	200	10	6267.48	0.069	20.695	0.0033	20.9
28	200	30	2047.27	0.240	20.695	0.0116	23.7
29	250	30	3225.37	0.150	20.695	0.0072	23.4

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (24) Resistivity Sounding Data Sheet

Province	Siem Riep	District	Siem Reap				
Site No.	VES 024	Operator	-				
Date	30-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	373546	UTM-N (m)	1469910				
Elevation (m)	7.5	Azimuth (deg)	30				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	866.798	20.694	41.8864	315.8
2	1.5	0.2	17.36	404.408	20.694	19.5423	339.3
3	2.5	0.2	48.77	126.611	20.694	6.1182	298.4
4	3	0.2	70.37	67.573	20.694	3.2653	229.8
5	4	0.2	125.35	29.672	20.695	1.4338	179.7
6	5	0.2	196.04	17.663	20.695	0.8535	167.3
7	6	0.2	282.43	12.516	20.695	0.6048	170.8
8	8	0.2	502.34	7.234	20.695	0.3496	175.6
9	8	1	98.96	17.069	20.695	0.8248	81.6
10	10	0.2	785.08	4.153	20.696	0.2007	157.5
11	10	1	155.51	11.315	20.695	0.5468	85.0
12	13	1	263.89	4.682	20.696	0.2262	59.7
13	17	1	452.39	3.355	20.696	0.1621	73.3
14	20	1	626.75	2.581	20.696	0.1247	78.2
15	25	1	980.18	2.651	20.696	0.1281	125.6
16	30	1	1412.15	2.750	20.696	0.1329	187.6
17	40	1	2511.70	1.406	20.696	0.0679	170.6
18	50	1	3925.42	0.820	20.696	0.0396	155.5
19	50	10	376.99	4.501	20.696	0.2175	82.0
20	60	1	5653.30	0.937	20.696	0.0453	256.0
21	60	10	549.78	3.269	20.696	0.1580	86.8
22	80	10	989.60	1.228	20.696	0.0593	58.7
23	100	10	1555.09	0.532	20.696	0.0257	40.0
24	130	10	2638.94	0.204	20.696	0.0099	26.0
25	170	10	4523.89	0.093	20.697	0.0045	20.3
26	170	30	1466.08	0.338	20.696	0.0163	23.9
27	200	10	6267.48	0.069	20.696	0.0033	20.9
28	200	30	2047.27	0.216	20.696	0.0104	21.4
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (25) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 025		Operator	-			
Date	22-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	372882		UTM-N (m)	1472741			
Elevation (m)	9.3		Azimuth (deg)	90			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1340.184	20.695	64.7588	488.3
2	1.5	0.2	17.36	689.441	20.695	33.3144	578.3
3	2.5	0.2	48.77	250.814	20.695	12.1195	591.1
4	3	0.2	70.37	174.607	20.696	8.4368	593.7
5	4	0.2	125.35	85.410	20.696	4.1269	517.3
6	5	0.2	196.04	45.679	20.696	2.2071	432.7
7	6	0.2	282.43	26.233	20.696	1.2675	358.0
8	8	0.2	502.34	10.135	20.696	0.4897	246.0
9	8	1	98.96	50.100	20.696	2.4208	239.6
10	10	0.2	785.08	4.460	20.696	0.2155	169.2
11	10	1	155.51	21.773	20.697	1.0520	163.6
12	13	1	263.89	8.517	20.697	0.4115	108.6
13	17	1	452.39	3.886	20.696	0.1878	84.9
14	20	1	626.75	2.776	20.696	0.1341	84.1
15	25	1	980.18	1.978	20.696	0.0956	93.7
16	30	1	1412.15	1.457	20.697	0.0704	99.4
17	40	1	2511.70	0.827	20.697	0.0400	100.4
18	50	1	3925.42	0.520	20.697	0.0251	98.6
19	50	10	376.99	5.533	20.697	0.2673	100.8
20	60	1	5653.30	0.370	20.697	0.0179	101.1
21	60	10	549.78	3.296	20.697	0.1593	87.6
22	80	10	989.60	1.671	20.697	0.0807	79.9
23	100	10	1555.09	0.837	20.696	0.0404	62.9
24	130	10	2638.94	0.324	20.696	0.0157	41.3
25	170	10	4523.89	0.223	20.696	0.0108	48.7
26	170	30	1466.08	0.433	20.697	0.0209	30.7
27	200	10	6267.48	0.189	20.696	0.0091	57.2
28	200	30	2047.27	0.381	20.696	0.0184	37.7
29	250	30	3225.37	0.340	20.697	0.0164	53.0

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (26) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 026		Operator	-			
Date	25-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	372911		UTM-N (m)	1471547			
Elevation (m)	8		Azimuth (deg)	170			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	903.493	20.695	43.6576	329.2
2	1.5	0.2	17.36	390.010	20.695	18.8456	327.2
3	2.5	0.2	48.77	101.793	20.695	4.9187	239.9
4	3	0.2	70.37	55.571	20.695	2.6852	189.0
5	4	0.2	125.35	17.197	20.695	0.8310	104.2
6	5	0.2	196.04	7.532	20.696	0.3639	71.3
7	6	0.2	282.43	3.657	20.695	0.1767	49.9
8	8	0.2	502.34	1.453	20.695	0.0702	35.3
9	8	1	98.96	7.577	20.696	0.3661	36.2
10	10	0.2	785.08	0.926	20.696	0.0447	35.1
11	10	1	155.51	4.688	20.696	0.2265	35.2
12	13	1	263.89	3.002	20.696	0.1451	38.3
13	17	1	452.39	2.106	20.696	0.1018	46.0
14	20	1	626.75	1.695	20.696	0.0819	51.3
15	25	1	980.18	1.266	20.696	0.0612	60.0
16	30	1	1412.15	0.978	20.696	0.0473	66.7
17	40	1	2511.70	0.527	20.696	0.0255	64.0
18	50	1	3925.42	0.318	20.697	0.0154	60.3
19	50	10	376.99	4.675	20.696	0.2259	85.2
20	60	1	5653.30	0.235	20.696	0.0114	64.2
21	60	10	549.78	2.799	20.696	0.1352	74.4
22	80	10	989.60	1.482	20.696	0.0716	70.9
23	100	10	1555.09	0.815	20.696	0.0394	61.2
24	130	10	2638.94	0.359	20.696	0.0173	45.8
25	170	10	4523.89	0.134	20.696	0.0065	29.3
26	170	30	1466.08	0.343	20.697	0.0166	24.3
27	200	10	6267.48	0.087	20.697	0.0042	26.3
28	200	30	2047.27	0.244	20.696	0.0118	24.1
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (27) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 027		Operator	-			
Date	14-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	373592		UTM-N (m)	1466018			
Elevation (m)	6		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	40.097	20.693	1.9377	14.6
2	1.5	0.2	17.36	13.997	20.693	0.6764	11.7
3	2.5	0.2	48.77	4.740	20.694	0.2291	11.2
4	3	0.2	70.37	3.375	20.693	0.1631	11.5
5	4	0.2	125.35	2.141	20.694	0.1035	13.0
6	5	0.2	196.04	1.481	20.694	0.0716	14.0
7	6	0.2	282.43	1.100	20.694	0.0532	15.0
8	8	0.2	502.34	0.688	20.694	0.0332	16.7
9	8	1	98.96	3.234	20.695	0.1563	15.5
10	10	0.2	785.08	0.506	20.695	0.0245	19.2
11	10	1	155.51	2.249	20.694	0.1087	16.9
12	13	1	263.89	1.432	20.695	0.0692	18.3
13	17	1	452.39	0.878	20.695	0.0424	19.2
14	20	1	626.75	0.659	20.695	0.0318	20.0
15	25	1	980.18	0.458	20.695	0.0221	21.7
16	30	1	1412.15	0.320	20.695	0.0155	21.8
17	40	1	2511.70	0.183	20.695	0.0088	22.2
18	50	1	3925.42	0.117	20.695	0.0057	22.2
19	50	10	376.99	1.718	20.695	0.0830	31.3
20	60	1	5653.30	0.065	20.696	0.0031	17.8
21	60	10	549.78	0.721	20.695	0.0348	19.2
22	80	10	989.60	0.350	20.696	0.0169	16.7
23	100	10	1555.09	0.203	20.695	0.0098	15.3
24	130	10	2638.94	0.088	20.696	0.0043	11.2
25	170	10	4523.89	0.053	20.695	0.0026	11.6
26	170	30	1466.08	0.194	20.696	0.0094	13.7
27	200	10	6267.48	0.038	20.696	0.0018	11.5
28	200	30	2047.27	0.113	20.696	0.0055	11.2

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (28) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 028		Operator	-			
Date	25-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	375336		UTM-N (m)	1471943			
Elevation (m)	9.8		Azimuth (deg)	45			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1261.674	20.697	60.9593	459.6
2	1.5	0.2	17.36	509.005	20.696	24.5944	427.0
3	2.5	0.2	48.77	126.669	20.695	6.1208	298.5
4	3	0.2	70.37	65.806	20.696	3.1796	223.8
5	4	0.2	125.35	23.888	20.696	1.1542	144.7
6	5	0.2	196.04	10.988	20.696	0.5309	104.1
7	6	0.2	282.43	6.689	20.696	0.3232	91.3
8	8	0.2	502.34	3.446	20.696	0.1665	83.6
9	8	1	98.96	16.601	20.696	0.8021	79.4
10	10	0.2	785.08	2.171	20.697	0.1049	82.4
11	10	1	155.51	10.225	20.696	0.4941	76.8
12	13	1	263.89	6.510	20.696	0.3146	83.0
13	17	1	452.39	4.275	20.697	0.2066	93.4
14	20	1	626.75	3.339	20.696	0.1613	101.1
15	25	1	980.18	2.374	20.697	0.1147	112.4
16	30	1	1412.15	1.709	20.697	0.0826	116.6
17	40	1	2511.70	1.056	20.697	0.0510	128.2
18	50	1	3925.42	0.702	20.697	0.0339	133.1
19	50	10	376.99	6.919	20.697	0.3343	126.0
20	60	1	5653.30	0.699	20.697	0.0338	190.9
21	60	10	549.78	4.616	20.697	0.2230	122.6
22	80	10	989.60	2.431	20.697	0.1175	116.2
23	100	10	1555.09	1.366	20.697	0.0660	102.6
24	130	10	2638.94	0.622	20.697	0.0301	79.3
25	170	10	4523.89	0.254	20.697	0.0123	55.5
26	170	30	1466.08	0.812	20.697	0.0392	57.5
27	200	10	6267.48	0.143	20.697	0.0069	43.3
28	200	30	2047.27	0.507	20.697	0.0245	50.2
29	250	30	3225.37	0.168	20.697	0.0081	26.2

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (29) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 029		Operator	-			
Date	13-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	375333		UTM-N (m)	1469960			
Elevation (m)	8.7		Azimuth (deg)	0			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	205.692	20.692	9.9407	75.0
2	1.5	0.2	17.36	72.863	20.692	3.5213	61.1
3	2.5	0.2	48.77	27.150	20.693	1.3120	64.0
4	3	0.2	70.37	20.689	20.693	0.9998	70.4
5	4	0.2	125.35	12.741	20.693	0.6157	77.2
6	5	0.2	196.04	8.877	20.693	0.4290	84.1
7	6	0.2	282.43	6.457	20.693	0.3120	88.1
8	8	0.2	502.34	3.701	20.694	0.1788	89.8
9	8	1	98.96	16.585	20.694	0.8014	79.3
10	10	0.2	785.08	2.391	20.694	0.1155	90.7
11	10	1	155.51	10.469	20.694	0.5059	78.7
12	13	1	263.89	6.470	20.694	0.3127	82.5
13	17	1	452.39	3.751	20.694	0.1813	82.0
14	20	1	626.75	2.850	20.694	0.1377	86.3
15	25	1	980.18	2.129	20.695	0.1029	100.8
16	30	1	1412.15	1.565	20.694	0.0756	106.8
17	40	1	2511.70	0.813	20.694	0.0393	98.7
18	50	1	3925.42	0.480	20.694	0.0232	91.1
19	50	10	376.99	4.771	20.695	0.2305	86.9
20	60	1	5653.30	0.298	20.695	0.0144	81.4
21	60	10	549.78	3.020	20.696	0.1459	80.2
22	80	10	989.60	1.327	20.695	0.0641	63.5
23	100	10	1555.09	0.619	20.695	0.0299	46.5
24	130	10	2638.94	0.263	20.695	0.0127	33.5
25	170	10	4523.89	0.185	20.695	0.0089	40.4
26	170	30	1466.08	0.346	20.695	0.0167	24.5
27	200	10	6267.48	0.103	20.695	0.0050	31.2
28	200	30	2047.27	0.187	20.696	0.0090	18.5
29	250	30	3225.37	0.106	20.695	0.0051	16.5

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (30) Resistivity Sounding Data Sheet

Province		District	Siem Reap				
Site No.	VES 030	Operator	-				
Date	13-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	374609	UTM-N (m)	1466805				
Elevation (m)	7	Azimuth (deg)	0				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	108.962	20.695	5.2651	39.7
2	1.5	0.2	17.36	55.600	20.695	2.6866	46.6
3	2.5	0.2	48.77	17.901	20.695	0.8650	42.2
4	3	0.2	70.37	12.095	20.696	0.5844	41.1
5	4	0.2	125.35	7.078	20.695	0.3420	42.9
6	5	0.2	196.04	4.621	20.696	0.2233	43.8
7	6	0.2	282.43	3.310	20.696	0.1599	45.2
8	8	0.2	502.34	1.981	20.696	0.0957	48.1
9	8	1	98.96	8.618	20.696	0.4164	41.2
10	10	0.2	785.08	1.352	20.696	0.0653	51.3
11	10	1	155.51	7.299	20.696	0.3527	54.8
12	13	1	263.89	4.647	20.697	0.2245	59.2
13	17	1	452.39	2.901	20.697	0.1402	63.4
14	20	1	626.75	2.189	20.696	0.1058	66.3
15	25	1	980.18	1.405	20.696	0.0679	66.5
16	30	1	1412.15	0.965	20.696	0.0466	65.8
17	40	1	2511.70	0.472	20.697	0.0228	57.3
18	50	1	3925.42	0.249	20.696	0.0120	47.2
19	50	10	376.99	2.432	20.697	0.1175	44.3
20	60	1	5653.30	0.153	20.696	0.0074	41.8
21	60	10	549.78	1.439	20.697	0.0695	38.2
22	80	10	989.60	0.562	20.697	0.0272	26.9
23	100	10	1555.09	0.279	20.696	0.0135	21.0
24	130	10	2638.94	0.134	20.696	0.0065	17.1
25	170	10	4523.89	0.076	20.696	0.0037	16.6
26	170	30	1466.08	0.244	20.697	0.0118	17.3
27	200	10	6267.48	0.064	20.696	0.0031	19.4
28	200	30	2047.27	0.152	20.696	0.0073	15.0
29	250	30	3225.37	0.091	20.697	0.0044	14.2

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (31) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 031		Operator	-			
Date	16-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	377786		UTM-N (m)	1470523			
Elevation (m)	7.7		Azimuth (deg)	20			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	440.020	20.694	21.2632	160.3
2	1.5	0.2	17.36	238.196	20.694	11.5104	199.8
3	2.5	0.2	48.77	87.368	20.694	4.2219	205.9
4	3	0.2	70.37	59.451	20.694	2.8729	202.2
5	4	0.2	125.35	29.758	20.694	1.4380	180.3
6	5	0.2	196.04	17.172	20.694	0.8298	162.7
7	6	0.2	282.43	9.716	20.694	0.4695	132.6
8	8	0.2	502.34	4.071	20.694	0.1967	98.8
9	8	1	98.96	18.122	20.694	0.8757	86.7
10	10	0.2	785.08	2.139	20.694	0.1034	81.1
11	10	1	155.51	9.763	20.695	0.4718	73.4
12	13	1	263.89	6.127	20.695	0.2961	78.1
13	17	1	452.39	4.526	20.695	0.2187	98.9
14	20	1	626.75	3.663	20.695	0.1770	110.9
15	25	1	980.18	2.505	20.695	0.1210	118.6
16	30	1	1412.15	1.772	20.695	0.0856	120.9
17	40	1	2511.70	1.124	20.695	0.0543	136.4
18	50	1	3925.42	0.717	20.695	0.0346	136.0
19	50	10	376.99	7.277	20.695	0.3516	132.6
20	60	1	5653.30	0.496	20.695	0.0240	135.5
21	60	10	549.78	5.025	20.695	0.2428	133.5
22	80	10	989.60	2.764	20.695	0.1336	132.2
23	100	10	1555.09	1.621	20.695	0.0783	121.8
24	130	10	2638.94	0.798	20.695	0.0386	101.8
25	170	10	4523.89	0.331	20.695	0.0160	72.4
26	170	30	1466.08	1.066	20.695	0.0515	75.5
27	200	10	6267.48	0.163	20.696	0.0079	49.4
28	200	30	2047.27	0.579	20.696	0.0280	57.3
29	250	30	3225.37	0.270	20.696	0.0130	42.1

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (32) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 032		Operator	-			
Date	16-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	377541		UTM-N (m)	1469336			
Elevation (m)	6.7		Azimuth (deg)	0			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	743.127	20.692	35.9137	270.8
2	1.5	0.2	17.36	439.144	20.692	21.2229	368.4
3	2.5	0.2	48.77	180.838	20.692	8.7395	426.2
4	3	0.2	70.37	125.634	20.692	6.0716	427.3
5	4	0.2	125.35	64.123	20.692	3.0989	388.5
6	5	0.2	196.04	35.761	20.693	1.7282	338.8
7	6	0.2	282.43	20.828	20.693	1.0065	284.3
8	8	0.2	502.34	8.602	20.693	0.4157	208.8
9	8	1	98.96	41.545	20.693	2.0077	198.7
10	10	0.2	785.08	4.798	20.693	0.2319	182.0
11	10	1	155.51	24.146	20.693	1.1669	181.5
12	13	1	263.89	14.927	20.693	0.7214	190.4
13	17	1	452.39	9.294	20.693	0.4491	203.2
14	20	1	626.75	6.224	20.693	0.3008	188.5
15	25	1	980.18	3.334	20.694	0.1611	157.9
16	30	1	1412.15	2.110	20.693	0.1020	144.0
17	40	1	2511.70	1.114	20.694	0.0538	135.2
18	50	1	3925.42	0.676	20.694	0.0327	128.2
19	50	10	376.99	3.849	20.694	0.1860	70.1
20	60	1	5653.30	0.464	20.694	0.0224	126.8
21	60	10	549.78	4.048	20.693	0.1956	107.5
22	80	10	989.60	2.112	20.694	0.1021	101.0
23	100	10	1555.09	1.131	20.694	0.0547	85.0
24	130	10	2638.94	0.484	20.694	0.0234	61.7
25	170	10	4523.89	0.197	20.695	0.0095	43.1
26	170	30	1466.08	0.698	20.695	0.0337	49.4
27	200	10	6267.48	0.111	20.695	0.0054	33.6
28	200	30	2047.27	0.384	20.695	0.0186	38.0
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (33) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 033		Operator	-			
Date	14-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	377651		UTM-N (m)	1467478			
Elevation (m)	5		Azimuth (deg)	10			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1053.445	20.693	50.9083	383.8
2	1.5	0.2	17.36	404.197	20.693	19.5330	339.1
3	2.5	0.2	48.77	142.611	20.693	6.8918	336.1
4	3	0.2	70.37	84.647	20.693	4.0906	287.9
5	4	0.2	125.35	50.782	20.694	2.4539	307.6
6	5	0.2	196.04	28.847	20.693	1.3940	273.3
7	6	0.2	282.43	18.024	20.694	0.8710	246.0
8	8	0.2	502.34	8.976	20.694	0.4337	217.9
9	8	1	98.96	46.753	20.693	2.2594	223.6
10	10	0.2	785.08	4.894	20.694	0.2365	185.7
11	10	1	155.51	25.498	20.694	1.2321	191.6
12	13	1	263.89	11.634	20.694	0.5622	148.4
13	17	1	452.39	5.633	20.694	0.2722	123.1
14	20	1	626.75	4.977	20.694	0.2405	150.7
15	25	1	980.18	2.192	20.694	0.1059	103.8
16	30	1	1412.15	1.463	20.694	0.0707	99.8
17	40	1	2511.70	0.816	20.694	0.0394	99.0
18	50	1	3925.42	0.455	20.695	0.0220	86.3
19	50	10	376.99	6.629	20.695	0.3203	120.8
20	60	1	5653.30	0.266	20.695	0.0129	72.7
21	60	10	549.78	2.789	20.694	0.1348	74.1
22	80	10	989.60	1.118	20.694	0.0540	53.5
23	100	10	1555.09	0.593	20.694	0.0287	44.6
24	130	10	2638.94	0.275	20.694	0.0133	35.1
25	170	10	4523.89	0.097	20.694	0.0047	21.2
26	170	30	1466.08	0.295	20.694	0.0143	20.9
27	200	40	1507.96	0.134	20.694	0.0065	9.8
28	200	30	2047.27	0.137	20.695	0.0066	13.6
29	250	30	2391.54	0.122	20.695	0.0059	14.1

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuis is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (34) Resistivity Sounding Data Sheet

Province		District	Siem Reap				
Site No.	VES 034	Operator	-				
Date	15-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	379096	UTM-N (m)	1470807				
Elevation (m)	7.6	Azimuth (deg)	100				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1101.180	20.695	53.2100	401.2
2	1.5	0.2	17.36	496.090	20.695	23.9715	416.1
3	2.5	0.2	48.77	157.283	20.695	7.6000	370.7
4	3	0.2	70.37	95.440	20.695	4.6117	324.5
5	4	0.2	125.35	40.168	20.696	1.9409	243.3
6	5	0.2	196.04	19.556	20.696	0.9449	185.2
7	6	0.2	282.43	10.630	20.696	0.5136	145.1
8	8	0.2	502.34	4.620	20.695	0.2232	112.1
9	8	1	98.96	19.820	20.696	0.9577	94.8
10	10	0.2	785.08	2.794	20.696	0.1350	106.0
11	10	1	155.51	12.385	20.696	0.5984	93.1
12	13	1	263.89	8.281	20.696	0.4001	105.6
13	17	1	452.39	5.967	20.696	0.2883	130.4
14	20	1	626.75	4.575	20.697	0.2210	138.5
15	25	1	980.18	3.341	20.695	0.1614	158.2
16	30	1	1412.15	2.442	20.696	0.1180	166.6
17	40	1	2511.70	1.514	20.696	0.0732	183.7
18	50	1	3925.42	0.989	20.696	0.0478	187.6
19	50	10	376.99	10.380	20.696	0.5015	189.1
20	60	1	5653.30	0.700	20.696	0.0338	191.2
21	60	10	549.78	7.129	20.696	0.3445	189.4
22	80	10	989.60	3.709	20.696	0.1792	177.3
23	100	10	1555.09	2.051	20.696	0.0991	154.1
24	130	10	2638.94	0.989	20.696	0.0478	126.1
25	170	10	4523.89	0.439	20.696	0.0212	96.0
26	170	30	1466.08	1.094	20.696	0.0529	77.5
27	200	10	6267.48	0.277	20.695	0.0134	83.9
28	200	30	2047.27	0.619	20.695	0.0299	61.2
29	250	30	3225.37	0.339	20.696	0.0164	52.8

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (35) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 035		Operator	-			
Date	15-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	379097		UTM-N (m)	1469099			
Elevation (m)	6.1		Azimuth (deg)	15			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	440.401	20.693	21.2826	160.5
2	1.5	0.2	17.36	195.886	20.693	9.4663	164.3
3	2.5	0.2	48.77	44.172	20.694	2.1345	104.1
4	3	0.2	70.37	25.974	20.694	1.2551	88.3
5	4	0.2	125.35	11.618	20.694	0.5614	70.4
6	5	0.2	196.04	6.704	20.694	0.3240	63.5
7	6	0.2	282.43	4.820	20.694	0.2329	65.8
8	8	0.2	502.34	3.067	20.694	0.1482	74.5
9	8	1	98.96	15.598	20.694	0.7537	74.6
10	10	0.2	785.08	2.145	20.695	0.1036	81.4
11	10	1	155.51	15.654	20.695	0.7564	117.6
12	13	1	263.89	6.736	20.695	0.3255	85.9
13	17	1	452.39	4.398	20.694	0.2125	96.1
14	20	1	626.75	3.335	20.695	0.1612	101.0
15	25	1	980.18	2.267	20.695	0.1095	107.4
16	30	1	1412.15	1.586	20.695	0.0766	108.2
17	40	1	2511.70	0.837	20.695	0.0404	101.6
18	50	1	3925.42	0.632	20.695	0.0305	119.9
19	50	10	376.99	6.889	20.695	0.3329	125.5
20	60	1	5653.30	0.618	20.695	0.0299	168.8
21	60	10	549.78	4.754	20.696	0.2297	126.3
22	80	10	989.60	2.356	20.695	0.1138	112.7
23	100	10	1555.09	1.383	20.695	0.0668	103.9
24	130	10	2638.94	0.509	20.696	0.0246	64.9
25	170	10	4523.89	0.185	20.697	0.0089	40.4
26	170	30	1466.08	0.765	20.696	0.0370	54.2
27	200	10	6267.48	0.099	20.696	0.0048	30.0
28	200	30	2047.27	0.422	20.696	0.0204	41.7
29	250	30	3225.37	0.196	20.697	0.0095	30.5

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (36) Resistivity Sounding Data Sheet

Province		District	Siem Reap				
Site No.	VES 036	Operator	-				
Date	14-07-09	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	379243	UTM-N (m)	1467196				
Elevation (m)	5	Azimuth (deg)	10				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	280.800	20.694	13.5692	102.3
2	1.5	0.2	17.36	165.575	20.694	8.0011	138.9
3	2.5	0.2	48.77	60.568	20.694	2.9268	142.7
4	3	0.2	70.37	42.114	20.694	2.0351	143.2
5	4	0.2	125.35	23.103	20.694	1.1164	139.9
6	5	0.2	196.04	13.696	20.694	0.6618	129.7
7	6	0.2	282.43	8.764	20.694	0.4235	119.6
8	8	0.2	502.34	3.999	20.694	0.1932	97.1
9	8	1	98.96	19.158	20.695	0.9257	91.6
10	10	0.2	785.08	1.985	20.695	0.0959	75.3
11	10	1	155.51	9.562	20.694	0.4621	71.9
12	13	1	263.89	5.169	20.694	0.2498	65.9
13	17	1	452.39	3.193	20.694	0.1543	69.8
14	20	1	626.75	2.503	20.695	0.1209	75.8
15	25	1	980.18	1.746	20.694	0.0844	82.7
16	30	1	1412.15	1.224	20.695	0.0591	83.5
17	40	1	2511.70	0.667	20.695	0.0322	81.0
18	50	1	3925.42	0.445	20.695	0.0215	84.4
19	50	10	376.99	4.415	20.695	0.2133	80.4
20	60	1	5653.30	0.380	20.695	0.0184	103.8
21	60	10	549.78	3.816	20.695	0.1844	101.4
22	80	10	989.60	1.926	20.695	0.0931	92.1
23	100	10	1555.09	1.051	20.695	0.0508	79.0
24	130	10	2638.94	0.444	20.695	0.0215	56.6
25	170	10	4523.89	0.177	20.695	0.0086	38.7
26	170	30	1466.08	0.585	20.695	0.0283	41.4
27	200	10	6267.48	0.102	20.695	0.0049	30.9
28	200	30	2047.27	0.317	20.695	0.0153	31.4
29	250	30	3225.37	0.196	20.695	0.0095	30.5

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (37) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 037		Operator	-			
Date	16-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	380700		UTM-N (m)	1470803			
Elevation (m)	8.5		Azimuth (deg)	105			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	3700.227	20.694	178.8067	1348.2
2	1.5	0.2	17.36	1408.076	20.694	68.0427	1181.2
3	2.5	0.2	48.77	353.303	20.693	17.0736	832.7
4	3	0.2	70.37	199.271	20.694	9.6294	677.6
5	4	0.2	125.35	87.432	20.694	4.2250	529.6
6	5	0.2	196.04	40.885	20.694	1.9757	387.3
7	6	0.2	282.43	20.643	20.695	0.9975	281.7
8	8	0.2	502.34	7.720	20.695	0.3730	187.4
9	8	1	98.96	31.047	20.695	1.5002	148.5
10	10	0.2	785.08	4.047	20.695	0.1956	153.5
11	10	1	155.51	15.891	20.695	0.7679	119.4
12	13	1	263.89	9.446	20.695	0.4564	120.4
13	17	1	452.39	6.057	20.695	0.2927	132.4
14	20	1	626.75	4.750	20.695	0.2295	143.9
15	25	1	980.18	3.362	20.695	0.1625	159.2
16	30	1	1412.15	2.506	20.695	0.1211	171.0
17	40	1	2511.70	1.598	20.695	0.0772	193.9
18	50	1	3925.42	1.055	20.695	0.0510	200.1
19	50	10	376.99	9.893	20.695	0.4780	180.2
20	60	1	5653.30	0.937	20.695	0.0453	256.0
21	60	10	549.78	7.137	20.695	0.3449	189.6
22	80	10	989.60	3.555	20.695	0.1718	170.0
23	100	10	1555.09	1.877	20.696	0.0907	141.0
24	130	10	2638.94	1.009	20.695	0.0488	128.7
25	170	10	4523.89	0.624	20.695	0.0302	136.4
26	170	30	1466.08	0.734	20.695	0.0355	52.0
27	200	10	6267.48	0.307	20.696	0.0148	93.0
28	200	30	2047.27	0.782	20.696	0.0378	77.4
29	250	30	3225.37	0.395	20.695	0.0191	61.6

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (38) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 038		Operator	-			
Date	17-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	380688		UTM-N (m)	1469407			
Elevation (m)	7.4		Azimuth (deg)	90			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	915.912	20.693	44.2619	333.7
2	1.5	0.2	17.36	422.655	20.694	20.4240	354.6
3	2.5	0.2	48.77	124.908	20.694	6.0360	294.4
4	3	0.2	70.37	78.237	20.694	3.7807	266.0
5	4	0.2	125.35	34.499	20.694	1.6671	209.0
6	5	0.2	196.04	19.410	20.695	0.9379	183.9
7	6	0.2	282.43	10.586	20.694	0.5115	144.5
8	8	0.2	502.34	4.263	20.695	0.2060	103.5
9	8	1	98.96	25.277	20.695	1.2214	120.9
10	10	0.2	785.08	2.727	20.695	0.1318	103.5
11	10	1	155.51	14.611	20.695	0.7060	109.8
12	13	1	263.89	8.375	20.695	0.4047	106.8
13	17	1	452.39	5.416	20.695	0.2617	118.4
14	20	1	626.75	4.602	20.696	0.2224	139.4
15	25	1	980.18	3.212	20.695	0.1552	152.1
16	30	1	1412.15	2.432	20.696	0.1175	165.9
17	40	1	2511.70	1.466	20.695	0.0708	177.9
18	50	1	3925.42	1.065	20.696	0.0515	202.0
19	50	10	376.99	15.365	20.696	0.7424	279.9
20	60	1	5653.30	0.808	20.696	0.0390	220.7
21	60	10	549.78	11.875	20.696	0.5738	315.5
22	80	10	989.60	6.401	20.696	0.3093	306.1
23	100	10	1555.09	4.097	20.696	0.1980	307.8
24	130	10	2638.94	1.659	20.696	0.0802	211.5
25	170	10	4523.89	0.516	20.696	0.0249	112.8
26	170	30	1466.08	1.199	20.696	0.0579	84.9
27	200	10	6267.48	0.291	20.696	0.0141	88.1
28	200	30	2047.27	0.831	20.696	0.0402	82.2
29	250	30	3225.37	0.250	20.696	0.0121	39.0

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (39) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 039		Operator	-			
Date	17-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	380775		UTM-N (m)	1467559			
Elevation (m)	6		Azimuth (deg)	110			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	672.172	20.691	32.4862	244.9
2	1.5	0.2	17.36	382.875	20.691	18.5044	321.2
3	2.5	0.2	48.77	151.614	20.691	7.3275	357.4
4	3	0.2	70.37	99.423	20.691	4.8051	338.1
5	4	0.2	125.35	49.931	20.692	2.4131	302.5
6	5	0.2	196.04	27.697	20.692	1.3385	262.4
7	6	0.2	282.43	15.988	20.692	0.7727	218.2
8	8	0.2	502.34	6.732	20.692	0.3253	163.4
9	8	1	98.96	33.696	20.693	1.6284	161.1
10	10	0.2	785.08	3.406	20.693	0.1646	129.2
11	10	1	155.51	16.979	20.693	0.8205	127.6
12	13	1	263.89	7.820	20.693	0.3779	99.7
13	17	1	452.39	4.085	20.693	0.1974	89.3
14	20	1	626.75	2.878	20.693	0.1391	87.2
15	25	1	980.18	1.876	20.693	0.0907	88.9
16	30	1	1412.15	1.331	20.693	0.0643	90.8
17	40	1	2511.70	0.841	20.694	0.0406	102.1
18	50	1	3925.42	0.550	20.694	0.0266	104.3
19	50	10	376.99	5.494	20.694	0.2655	100.1
20	60	1	5653.30	0.384	20.693	0.0186	104.9
21	60	10	549.78	3.753	20.694	0.1814	99.7
22	80	10	989.60	2.113	20.694	0.1021	101.0
23	100	10	1555.09	1.144	20.694	0.0553	86.0
24	130	10	2638.94	0.532	20.694	0.0257	67.8
25	170	10	4523.89	0.211	20.694	0.0102	46.1
26	170	30	1466.08	0.725	20.694	0.0350	51.4
27	200	10	6267.48	0.167	20.694	0.0081	50.6
28	200	30	2047.27	0.448	20.694	0.0216	44.3

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (40) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 040		Operator	-			
Date	17-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	382812		UTM-N (m)	1471328			
Elevation (m)	8.9		Azimuth (deg)	0			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	1808.482	20.694	87.3916	658.9
2	1.5	0.2	17.36	680.388	20.694	32.8785	570.8
3	2.5	0.2	48.77	153.663	20.694	7.4255	362.1
4	3	0.2	70.37	89.706	20.695	4.3347	305.0
5	4	0.2	125.35	38.932	20.695	1.8812	235.8
6	5	0.2	196.04	20.094	20.695	0.9710	190.3
7	6	0.2	282.43	11.863	20.695	0.5732	161.9
8	8	0.2	502.34	5.652	20.695	0.2731	137.2
9	8	1	98.96	28.247	20.696	1.3649	135.1
10	10	0.2	785.08	3.483	20.696	0.1683	132.1
11	10	1	155.51	17.899	20.696	0.8649	134.5
12	13	1	263.89	12.670	20.696	0.6122	161.6
13	17	1	452.39	10.048	20.696	0.4855	219.6
14	20	1	626.75	6.988	20.696	0.3376	211.6
15	25	1	980.18	4.826	20.696	0.2332	228.6
16	30	1	1412.15	3.651	20.696	0.1764	249.1
17	40	1	2511.70	2.118	20.697	0.1023	257.0
18	50	1	3925.42	1.700	20.696	0.0821	322.4
19	50	10	376.99	15.132	20.696	0.7312	275.6
20	60	1	5653.30	1.277	20.697	0.0617	348.8
21	60	10	549.78	10.962	20.697	0.5296	291.2
22	80	10	989.60	5.199	20.697	0.2512	248.6
23	100	10	1555.09	2.360	20.697	0.1140	177.3
24	130	10	2638.94	0.989	20.697	0.0478	126.1
25	170	10	4523.89	0.310	20.697	0.0150	67.8
26	170	30	1466.08	1.002	20.697	0.0484	71.0
27	200	10	6267.48	0.171	20.697	0.0083	51.8
28	200	30	2047.27	0.539	20.697	0.0260	53.3
29	250	30	3225.37	0.230	20.697	0.0111	35.8

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimuth is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (41) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 041		Operator	-			
Date	17-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	382800		UTM-N (m)	1469544			
Elevation (m)	7		Azimuth (deg)	0			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2817.053	20.696	136.1158	1026.3
2	1.5	0.2	17.36	1257.675	20.696	60.7690	1054.9
3	2.5	0.2	48.77	294.971	20.696	14.2526	695.1
4	3	0.2	70.37	162.760	20.697	7.8639	553.4
5	4	0.2	125.35	53.755	20.697	2.5972	325.6
6	5	0.2	196.04	35.943	20.697	1.7366	340.4
7	6	0.2	282.43	18.426	20.696	0.8903	251.5
8	8	0.2	502.34	11.273	20.697	0.5447	273.6
9	8	1	98.96	50.908	20.696	2.4598	243.4
10	10	0.2	785.08	8.358	20.697	0.4038	317.0
11	10	1	155.51	37.311	20.697	1.8027	280.3
12	13	1	263.89	28.097	20.697	1.3575	358.2
13	17	1	452.39	10.390	20.697	0.5020	227.1
14	20	1	626.75	7.057	20.697	0.3410	213.7
15	25	1	980.18	4.737	20.698	0.2289	224.3
16	30	1	1412.15	3.628	20.697	0.1753	247.5
17	40	1	2511.70	2.397	20.697	0.1158	290.9
18	50	1	3925.42	1.610	20.697	0.0778	305.4
19	50	10	376.99	10.049	20.697	0.4855	183.0
20	60	1	5653.30	1.101	20.697	0.0532	300.7
21	60	10	549.78	6.770	20.698	0.3271	179.8
22	80	10	989.60	3.400	20.698	0.1643	162.6
23	100	10	1555.09	1.663	20.697	0.0803	125.0
24	130	10	2638.94	0.755	20.697	0.0365	96.3
25	170	10	4523.89	0.355	20.697	0.0172	77.6
26	170	30	1466.08	1.058	20.697	0.0511	74.9
27	200	10	6267.48	0.260	20.697	0.0126	78.7
28	200	30	2047.27	0.598	20.697	0.0289	59.2

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (42) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 042		Operator	-			
Date	18-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	382973		UTM-N (m)	1467530			
Elevation (m)	6		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	333.361	20.691	16.1114	121.5
2	1.5	0.2	17.36	169.465	20.692	8.1899	142.2
3	2.5	0.2	48.77	59.278	20.692	2.8648	139.7
4	3	0.2	70.37	40.445	20.692	1.9546	137.5
5	4	0.2	125.35	21.845	20.693	1.0557	132.3
6	5	0.2	196.04	12.488	20.692	0.6035	118.3
7	6	0.2	282.43	7.679	20.698	0.3710	104.8
8	8	0.2	502.34	3.844	20.698	0.1857	93.3
9	8	1	98.96	29.404	20.693	1.4210	140.6
10	10	0.2	785.08	2.102	20.693	0.1016	79.7
11	10	1	155.51	15.758	20.693	0.7615	118.4
12	13	1	263.89	8.090	20.693	0.3910	103.2
13	17	1	452.39	4.361	20.693	0.2107	95.3
14	20	1	626.75	2.766	20.693	0.1337	83.8
15	25	1	980.18	1.554	20.693	0.0751	73.6
16	30	1	1412.15	1.154	20.693	0.0558	78.8
17	40	1	2511.70	0.672	20.694	0.0325	81.6
18	50	1	3925.42	0.425	20.694	0.0205	80.6
19	50	10	376.99	6.796	20.694	0.3284	123.8
20	60	1	5653.30	0.277	20.694	0.0134	75.7
21	60	10	549.78	4.675	20.694	0.2259	124.2
22	80	10	989.60	2.507	20.694	0.1211	119.9
23	100	10	1555.09	1.508	20.694	0.0729	113.3
24	130	10	2638.94	0.694	20.694	0.0335	88.5
25	170	10	4523.89	0.249	20.694	0.0120	54.4
26	170	30	1466.08	0.979	20.695	0.0473	69.4
27	200	10	6267.48	0.110	20.695	0.0053	33.3
28	200	30	2047.27	0.568	20.695	0.0274	56.2
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (43) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 043		Operator	-			
Date	29-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	384750		UTM-N (m)	1471799			
Elevation (m)	9.2		Azimuth (deg)	0			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2501.448	20.691	120.8955	911.6
2	1.5	0.2	17.36	1169.184	20.692	56.5042	980.9
3	2.5	0.2	48.77	356.866	20.692	17.2466	841.1
4	3	0.2	70.37	221.741	20.692	10.7163	754.1
5	4	0.2	125.35	92.841	20.692	4.4868	562.4
6	5	0.2	196.04	47.991	20.692	2.3193	454.7
7	6	0.2	282.43	27.531	20.692	1.3305	375.8
8	8	0.2	502.34	13.122	20.693	0.6341	318.5
9	8	1	98.96	63.723	20.693	3.0794	304.7
10	10	0.2	785.08	7.753	20.693	0.3747	294.1
11	10	1	155.51	36.386	20.693	1.7584	273.4
12	13	1	263.89	19.857	20.694	0.9596	253.2
13	17	1	452.39	10.205	20.693	0.4932	223.1
14	20	1	626.75	6.847	20.693	0.3309	207.4
15	25	1	980.18	4.027	20.693	0.1946	190.7
16	30	1	1412.15	2.775	20.693	0.1341	189.4
17	40	1	2511.70	1.509	20.694	0.0729	183.2
18	50	1	3925.42	0.962	20.694	0.0465	182.5
19	50	10	376.99	10.837	20.694	0.5237	197.4
20	60	1	5653.30	0.724	20.694	0.0350	197.8
21	60	10	549.78	7.000	20.694	0.3383	186.0
22	80	10	989.60	3.357	20.694	0.1622	160.5
23	100	10	1555.09	1.688	20.694	0.0816	126.8
24	130	10	2638.94	0.607	20.694	0.0293	77.4
25	170	10	4523.89	0.249	20.694	0.0120	54.4
26	170	30	1466.08	0.855	20.694	0.0413	60.6
27	200	10	6267.48	0.146	20.695	0.0071	44.2
28	200	30	2047.27	0.608	20.695	0.0294	60.1
29	250	30	3225.37	0.225	20.695	0.0109	35.1

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (44) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 044		Operator	-			
Date	29-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	384816		UTM-N (m)	1470230			
Elevation (m)	9		Azimuth (deg)	90			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2233.926	20.694	107.9504	813.9
2	1.5	0.2	17.36	882.100	20.694	42.6259	740.0
3	2.5	0.2	48.77	267.702	20.694	12.9362	630.9
4	3	0.2	70.37	140.986	20.695	6.8126	479.4
5	4	0.2	125.35	71.570	20.695	3.4583	433.5
6	5	0.2	196.04	37.542	20.695	1.8141	355.6
7	6	0.2	282.43	21.171	20.695	1.0230	288.9
8	8	0.2	502.34	11.855	20.696	0.5728	287.7
9	8	1	98.96	62.059	20.695	2.9987	296.8
10	10	0.2	785.08	7.003	20.695	0.3384	265.7
11	10	1	155.51	35.766	20.695	1.7282	268.8
12	13	1	263.89	18.470	20.696	0.8924	235.5
13	17	1	452.39	11.839	20.695	0.5721	258.8
14	20	1	626.75	9.208	20.696	0.4449	278.9
15	25	1	980.18	6.488	20.696	0.3135	307.3
16	30	1	1412.15	4.635	20.696	0.2240	316.3
17	40	1	2511.70	2.662	20.696	0.1286	323.1
18	50	1	3925.42	1.628	20.696	0.0787	308.8
19	50	10	376.99	11.927	20.696	0.5763	217.3
20	60	1	5653.30	1.109	20.696	0.0536	302.9
21	60	10	549.78	7.814	20.696	0.3776	207.6
22	80	10	989.60	4.263	20.696	0.2060	203.8
23	100	10	1555.09	2.487	20.696	0.1202	186.9
24	130	10	2638.94	0.948	20.696	0.0458	120.9
25	170	10	4523.89	0.312	20.696	0.0151	68.2
26	170	30	1466.08	1.010	20.697	0.0488	71.5
27	200	10	6267.48	0.241	20.696	0.0116	73.0
28	200	30	2047.27	0.592	20.696	0.0286	58.6
29	250	30	3225.37	0.236	20.697	0.0114	36.8

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (45) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 045			-			
Date	29-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	384837		UTM-N (m)	1468666			
Elevation (m)	7		Azimuth (deg)	0		Measured on Levee of 0.4m high	
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	910.246	20.696	43.9817	331.6
2	1.5	0.2	17.36	615.337	20.695	29.7336	516.2
3	2.5	0.2	48.77	336.595	20.696	16.2638	793.2
4	3	0.2	70.37	264.242	20.696	12.7678	898.5
5	4	0.2	125.35	166.231	20.696	8.0320	1006.8
6	5	0.2	196.04	110.282	20.696	5.3287	1044.6
7	6	0.2	282.43	75.901	20.696	3.6674	1035.8
8	8	0.2	502.34	41.002	20.696	1.9812	995.2
9	8	1	98.96	223.488	20.696	10.7986	1068.6
10	10	0.2	785.08	22.528	20.696	1.0885	854.6
11	10	1	155.51	122.362	20.696	5.9124	919.4
12	13	1	263.89	50.304	20.697	2.4305	641.4
13	17	1	452.39	17.884	20.696	0.8641	390.9
14	20	1	626.75	9.482	20.697	0.4581	287.1
15	25	1	980.18	4.588	20.696	0.2217	217.3
16	30	1	1412.15	2.911	20.696	0.1407	198.6
17	40	1	2511.70	1.740	20.697	0.0841	211.2
18	50	1	3925.42	1.140	20.697	0.0551	216.2
19	50	10	376.99	14.575	20.697	0.7042	265.5
20	60	1	5653.30	0.749	20.697	0.0362	204.6
21	60	10	549.78	9.460	20.697	0.4571	251.3
22	80	10	989.60	4.683	20.697	0.2263	223.9
23	100	10	1555.09	2.405	20.697	0.1162	180.7
24	130	10	2638.94	0.968	20.697	0.0468	123.4
25	170	10	4523.89	0.383	20.697	0.0185	83.7
26	170	30	1466.08	1.281	20.697	0.0619	90.7
27	200	10	6267.48	0.206	20.697	0.0100	62.4
28	200	30	2047.27	0.649	20.698	0.0314	64.2
29	250	30	3225.37	0.277	20.697	0.0134	43.2

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (46) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 046		Operator	-			
Date	18-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	384613		UTM-N (m)	1467351			
Elevation (m)	6		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	334.607	20.694	16.1693	121.9
2	1.5	0.2	17.36	240.442	20.694	11.6189	201.7
3	2.5	0.2	48.77	83.715	20.695	4.0452	197.3
4	3	0.2	70.37	60.155	20.695	2.9067	204.5
5	4	0.2	125.35	28.855	20.695	1.3943	174.8
6	5	0.2	196.04	13.673	20.695	0.6607	129.5
7	6	0.2	282.43	9.972	20.695	0.4819	136.1
8	8	0.2	502.34	5.893	20.695	0.2848	143.0
9	8	1	98.96	27.191	20.695	1.3139	130.0
10	10	0.2	785.08	19.894	124.158	0.1602	125.8
11	10	1	155.51	17.227	20.696	0.8324	129.4
12	13	1	263.89	58.683	124.159	0.4726	124.7
13	17	1	452.39	31.912	124.158	0.2570	116.3
14	20	1	626.75	21.463	124.590	0.1723	108.0
15	25	1	980.18	14.818	124.161	0.1193	117.0
16	30	1	1412.15	9.900	124.161	0.0797	112.6
17	40	1	2511.70	5.608	124.162	0.0452	113.4
18	50	1	3925.42	4.407	124.161	0.0355	139.3
19	50	10	376.99	39.738	124.163	0.3200	120.7
20	60	1	5653.30	2.435	124.162	0.0196	110.9
21	60	10	549.78	35.679	124.161	0.2874	158.0
22	80	10	989.60	12.814	124.164	0.1032	102.1
23	100	10	1555.09	7.411	124.164	0.0597	92.8
24	130	10	2638.94	3.252	124.164	0.0262	69.1
25	170	10	4523.89	1.279	124.162	0.0103	46.6
26	170	30	1466.08	4.168	124.162	0.0336	49.2
27	200	10	6267.48	0.915	124.164	0.0074	46.2
28	200	30	2047.27	2.075	124.165	0.0167	34.2
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (47) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 047		Operator	-			
Date	28-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	386744		UTM-N (m)	1471744			
Elevation (m)	12		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2889.752	20.691	139.6623	1053.1
2	1.5	0.2	17.36	1307.426	20.692	63.1851	1096.9
3	2.5	0.2	48.77	386.456	20.692	18.6766	910.9
4	3	0.2	70.37	235.088	20.691	11.3618	799.5
5	4	0.2	125.35	110.204	20.692	5.3259	667.6
6	5	0.2	196.04	58.830	20.692	2.8431	557.4
7	6	0.2	282.43	29.857	20.692	1.4429	407.5
8	8	0.2	502.34	11.647	20.692	0.5629	282.8
9	8	1	98.96	58.975	20.693	2.8500	282.0
10	10	0.2	785.08	6.813	20.692	0.3293	258.5
11	10	1	155.51	27.231	20.693	1.3160	204.6
12	13	1	263.89	14.099	20.693	0.6813	179.8
13	17	1	452.39	8.197	20.692	0.3961	179.2
14	20	1	626.75	6.484	20.693	0.3133	196.4
15	25	1	980.18	3.692	20.693	0.1784	174.9
16	30	1	1412.15	2.713	20.693	0.1311	185.1
17	40	1	2511.70	1.633	20.694	0.0789	198.2
18	50	1	3925.42	1.136	20.693	0.0549	215.5
19	50	10	376.99	10.230	20.693	0.4944	186.4
20	60	1	5653.30	0.840	20.694	0.0406	229.5
21	60	10	549.78	7.043	20.694	0.3403	187.1
22	80	10	989.60	3.618	20.694	0.1748	173.0
23	100	10	1555.09	1.892	20.694	0.0914	142.2
24	130	10	2638.94	0.799	20.694	0.0386	101.9
25	170	10	4523.89	0.326	20.694	0.0158	71.3
26	170	30	1466.08	1.035	20.694	0.0500	73.3
27	200	10	6267.48	0.213	20.694	0.0103	64.5
28	200	30	2047.27	0.546	20.695	0.0264	54.0
29	250	30	3225.37	0.255	20.695	0.0123	39.7

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (48) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 048		Operator	-			
Date	28-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	386494		UTM-N (m)	1469932			
Elevation (m)	10		Azimuth (deg)	80			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	617.576	2.072	298.0579	2247.4
2	1.5	0.2	17.36	300.395	2.072	144.9783	2516.8
3	2.5	0.2	48.77	74.247	2.072	35.8335	1747.6
4	3	0.2	70.37	33.162	2.072	16.0048	1126.3
5	4	0.2	125.35	9.122	2.072	4.4025	551.9
6	5	0.2	196.04	3.784	2.072	1.8263	358.0
7	6	0.2	282.43	18.140	20.697	0.8765	247.5
8	8	0.2	502.34	7.771	20.697	0.3755	188.6
9	8	1	98.96	36.381	20.697	1.7578	174.0
10	10	0.2	785.08	4.659	20.697	0.2251	176.7
11	10	1	155.51	20.418	20.697	0.9865	153.4
12	13	1	263.89	10.892	20.697	0.5263	138.9
13	17	1	452.39	6.412	20.697	0.3098	140.2
14	20	1	626.75	4.605	20.697	0.2225	139.4
15	25	1	980.18	3.086	20.698	0.1491	146.1
16	30	1	1412.15	2.263	20.697	0.1093	154.4
17	40	1	2511.70	1.443	20.697	0.0697	175.1
18	50	1	3925.42	0.949	20.697	0.0459	180.0
19	50	10	376.99	8.910	20.698	0.4305	162.3
20	60	1	5653.30	0.842	20.697	0.0407	230.0
21	60	10	549.78	6.150	20.698	0.2971	163.4
22	80	10	989.60	3.030	20.698	0.1464	144.9
23	100	10	1555.09	1.507	20.698	0.0728	113.2
24	130	10	2638.94	0.571	20.697	0.0276	72.8
25	170	10	4523.89	0.176	20.698	0.0085	38.5
26	170	30	1466.08	0.727	20.698	0.0351	51.5
27	200	10	6267.48	0.095	20.698	0.0046	28.8
28	200	30	2047.27	0.386	20.698	0.0186	38.2
29	250	30	3225.37	0.163	20.698	0.0079	25.4

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimus is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (49) Resistivity Sounding Data Sheet

Province			District	Siem Reap			
Site No.	VES 049		Operator	-			
Date	19-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	384947		UTM-N (m)	1467279			
Elevation (m)	6		Azimuth (deg)	-	Measured on Levee of 1.5m high in water		
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2037.695	20.693	98.4727	742.5
2	1.5	0.2	17.36	1183.553	20.693	57.1958	992.9
3	2.5	0.2	48.77	378.816	20.694	18.3056	892.8
4	3	0.2	70.37	235.152	20.694	11.3633	799.6
5	4	0.2	125.35	95.269	20.695	4.6035	577.0
6	5	0.2	196.04	47.446	20.695	2.2926	449.4
7	6	0.2	282.43	24.741	20.695	1.1955	337.6
8	8	0.2	502.34	8.300	20.695	0.4011	201.5
9	8	1	98.96	41.508	20.695	2.0057	198.5
10	10	0.2	785.08	4.566	20.696	0.2206	173.2
11	10	1	155.51	20.332	20.696	0.9824	152.8
12	13	1	263.89	10.481	20.695	0.5065	133.6
13	17	1	452.39	5.448	20.696	0.2632	119.1
14	20	1	626.75	3.831	20.696	0.1851	116.0
15	25	1	980.18	2.630	20.696	0.1271	124.6
16	30	1	1412.15	2.315	20.696	0.1119	158.0
17	40	1	2511.70	1.256	20.696	0.0607	152.4
18	50	1	3925.42	0.718	20.696	0.0347	136.2
19	50	10	376.99	8.789	20.696	0.4247	160.1
20	60	1	5653.30	0.536	20.696	0.0259	146.4
21	60	10	549.78	5.363	20.696	0.2591	142.5
22	80	10	989.60	2.640	20.696	0.1276	126.2
23	100	10	1555.09	1.593	20.696	0.0770	119.7
24	130	10	2638.94	0.712	20.697	0.0344	90.8
25	170	10	4523.89	0.284	20.696	0.0137	62.1
26	170	30	1466.08	0.749	20.696	0.0362	53.1
27	200	10	6267.48	0.124	20.696	0.0060	37.6
28	200	30	2047.27	0.217	20.697	0.0105	21.5
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (50) Resistivity Sounding Data Sheet

Province	Seam Riep		District	Siem Reap			
Site No.	VES 050		Operator	-			
Date	18-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	385909		UTM-N (m)	1466064			
Elevation (m)	7		Azimuth (deg)	-		Measured on Levee of 1.5m high	
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	769.208	20.696	37.1670	280.2
2	1.5	0.2	17.36	400.799	20.696	19.3660	336.2
3	2.5	0.2	48.77	113.103	20.697	5.4647	266.5
4	3	0.2	70.37	72.654	20.696	3.5105	247.0
5	4	0.2	125.35	38.537	20.697	1.8620	233.4
6	5	0.2	196.04	23.898	20.697	1.1547	226.4
7	6	0.2	282.43	15.617	20.697	0.7546	213.1
8	8	0.2	502.34	7.065	20.697	0.3414	171.5
9	8	1	98.96	38.311	20.697	1.8510	183.2
10	10	0.2	785.08	4.132	20.697	0.1996	156.7
11	10	1	155.51	22.047	20.697	1.0652	165.7
12	13	1	263.89	11.503	20.698	0.5558	146.7
13	17	1	452.39	6.095	20.697	0.2945	133.2
14	20	1	626.75	4.247	20.697	0.2052	128.6
15	25	1	980.18	2.613	20.697	0.1263	123.7
16	30	1	1412.15	1.859	20.697	0.0898	126.8
17	40	1	2511.70	1.121	20.698	0.0542	136.0
18	50	1	3925.42	0.672	20.698	0.0325	127.4
19	50	10	376.99	6.953	20.698	0.3359	126.6
20	60	1	5653.30	0.496	20.698	0.0240	135.5
21	60	10	549.78	4.678	20.698	0.2260	124.3
22	80	10	989.60	2.412	20.698	0.1165	115.3
23	100	10	1555.09	1.378	20.698	0.0666	103.5
24	130	10	2638.94	0.687	20.698	0.0332	87.6
25	170	10	4523.89	0.310	20.698	0.0150	67.8
26	170	30	1466.08	0.870	20.698	0.0420	61.6
27	200	10	6267.48	0.151	20.698	0.0073	45.7
28	200	30	2047.27	0.662	20.698	0.0320	65.5
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (51) Resistivity Sounding Data Sheet

Province	Siem Riep		District	Siem Reap			
Site No.	VES 051		Operator	-			
Date	28-07-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	388197		UTM-N (m)	1470104			
Elevation (m)	11		Azimuth (deg)	80			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	2417.343	20.694	116.8137	880.8
2	1.5	0.2	17.36	1194.198	20.694	57.7075	1001.8
3	2.5	0.2	48.77	366.694	20.694	17.7198	864.2
4	3	0.2	70.37	205.180	20.694	9.9150	697.7
5	4	0.2	125.35	88.142	20.695	4.2591	533.9
6	5	0.2	196.04	38.588	20.695	1.8646	365.5
7	6	0.2	282.43	21.529	20.695	1.0403	293.8
8	8	0.2	502.34	9.887	20.695	0.4777	240.0
9	8	1	98.96	40.906	20.695	1.9766	195.6
10	10	0.2	785.08	6.190	20.695	0.2991	234.8
11	10	1	155.51	25.025	20.696	1.2092	188.0
12	13	1	263.89	13.949	20.695	0.6740	177.9
13	17	1	452.39	7.825	20.695	0.3781	171.1
14	20	1	626.75	5.970	20.696	0.2885	180.8
15	25	1	980.18	4.235	20.695	0.2046	200.6
16	30	1	1412.15	3.012	20.696	0.1455	205.5
17	40	1	2511.70	1.662	20.695	0.0803	201.7
18	50	1	3925.42	1.050	20.695	0.0507	199.2
19	50	10	376.99	9.851	20.696	0.4760	179.4
20	60	1	5653.30	0.730	20.696	0.0353	199.4
21	60	10	549.78	6.397	20.696	0.3091	169.9
22	80	10	989.60	2.977	20.696	0.1438	142.3
23	100	10	1555.09	1.451	20.696	0.0701	109.0
24	130	10	2638.94	0.486	20.696	0.0235	62.0
25	170	10	4523.89	0.189	20.696	0.0091	41.3
26	170	30	1466.08	0.503	20.696	0.0243	35.6
27	200	10	6267.48	0.075	20.697	0.0036	22.7
28	200	30	2047.27	0.268	20.696	0.0129	26.5
29	250	30	3225.37				

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (52) Resistivity Sounding Data Sheet

Province		District	Siem Reap				
Site No.	VES 052	Operator	-				
Date	9-Jul-18	Equipment	McOHM EL	Method	Schlumberger		
UTM-E (m)	388484	UTM-N (m)	1467299				
Elevation (m)	6	Azimuth (deg)	-				
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.54	948.072	20.695	45.8116	345.4
2	1.5	0.2	17.36	551.654	20.695	26.6564	462.8
3	2.5	0.2	48.77	238.284	20.695	11.5141	561.5
4	3	0.2	70.37	166.416	20.695	8.0414	565.9
5	4	0.2	125.35	95.504	20.695	4.6148	578.5
6	5	0.2	196.04	58.664	20.695	2.8347	555.7
7	6	0.2	282.43	37.707	20.696	1.8219	514.6
8	8	0.2	502.34	18.423	20.695	0.8902	447.2
9	8	1	98.96	96.063	20.696	4.6416	459.3
10	10	0.2	785.08	10.241	20.696	0.4948	388.5
11	10	1	155.51	52.975	20.696	2.5597	398.1
12	13	1	263.89	25.653	20.696	1.2395	327.1
13	17	1	452.39	12.719	20.696	0.6146	278.0
14	20	1	626.75	8.465	20.696	0.4090	256.4
15	25	1	980.18	4.889	20.696	0.2362	231.5
16	30	1	1412.15	3.212	20.697	0.1552	219.2
17	40	1	2511.70	1.650	20.697	0.0797	200.2
18	50	1	3925.42	1.025	20.697	0.0495	194.4
19	50	10	376.99	11.103	20.697	0.5365	202.2
20	60	1	5653.30	0.737	20.697	0.0356	201.3
21	60	10	549.78	7.652	20.697	0.3697	203.3
22	80	10	989.60	3.741	20.697	0.1808	178.9
23	100	10	1555.09	1.891	20.697	0.0914	142.1
24	130	10	2638.94	0.786	20.697	0.0380	100.2
25	170	10	4523.89	0.272	20.697	0.0131	59.5
26	170	30	1466.08	0.956	20.697	0.0462	67.7
27	200	10	6267.48	0.144	20.697	0.0070	43.6
28	200	30	2047.27	0.470	20.697	0.0227	46.5
29	250	30	3225.37	0.191	20.698	0.0092	29.8

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.1 (53) Resistivity Sounding Data Sheet

Province	Siem Reap		District	Siem Reap			
Site No.	VES 053		Operator	-			
Date	30-Jul-09		Equipment	McOHM EL	Method	Schlumberger	
UTM-E (m)	372422		UTM-N (m)	1468607			
Elevation (m)	10.3		Azimuth (deg)	-			
No.	AB/2 (m)	MN/2 (m)	K	V (mV)	I (mA)	V/I (Ohm)	Rho-a (Ohm-m)
1	1	0.2	7.540	407.944	20.695	19.712	148.6
2	1.5	0.2	17.360	270.603	20.695	13.076	227.0
3	2.5	0.2	48.770	138.728	20.695	6.703	326.9
4	3	0.2	70.370	101.061	20.696	4.883	343.6
5	4	0.2	125.350	59.342	20.695	2.867	359.4
6	5	0.2	196.040	38.893	20.695	1.879	368.4
7	6	0.2	282.430	26.482	20.696	1.280	361.4
8	8	0.2	502.340	16.470	20.696	0.796	399.8
9	8	1	98.960	70.960	20.696	3.429	339.3
10	10	0.2	785.080	10.704	20.696	0.517	406.0
11	10	1	155.510	45.570	20.696	2.202	342.4
12	13	1	263.890	29.742	20.696	1.437	379.2
13	17	1	452.390	19.724	20.696	0.953	431.1
14	20	1	626.750	15.700	20.696	0.759	475.5
15	25	1	980.180	10.974	20.696	0.530	519.7
16	30	1	1412.150	8.385	20.696	0.405	572.1
17	40	1	2511.700	5.518	20.696	0.267	669.7
18	50	1	3925.420	3.734	20.697	0.180	708.2
19	50	10	376.990	40.061	20.697	1.936	729.7
20	60	1	5653.300	2.639	20.697	0.128	720.8
21	60	10	549.780	27.652	20.697	1.336	734.5
22	80	10	989.600	15.368	20.697	0.743	734.8
23	100	10	1555.090	9.403	20.697	0.454	706.5
24	130	10	2638.940	4.698	20.697	0.227	599.0
25	170	10	4523.890	1.498	20.697	0.072	327.4
26	170	30	1466.080	5.829	20.697	0.282	412.9
27	200	10	6267.480	0.732	20.697	0.035	221.7
28	200	30	2047.270	2.673	20.696	0.129	264.4
29	250	30					

Note: * The UTM coordinates are measured with Indian-Thailand datum
 * The Azimut is measured as bearing from the magnetic north
 * The elevation was read off from 1/10,000 and 1/100,000 topographic maps

Table 2.2.1 (a) Well Inventory Survey Instruction

No	Question	Explanation / instruction
1.	Basic Information of the Site	
1-1	Name of Establishment	Print official name in full
1-2	Type of Establishment	Choose (circle) one category that applies
1-3	Size of Establishment	Put number and choose a unit that applies
1-4	Name of interviewee	Put the full name of the person you interviewed
1-5	Contact phone number	Mobile phone or fixed phone of the establishment or contact person
1-6	GPS Coordinates of the facilities	Use UTM (Indian Thailand datum) at the well
1-7	Elevation of the well (GPS, Map)	Estimate from map or Read off your GPS in m above mean sea level
2.	Basic information of the Water Supply System	
2-1	Type of water source	Choose one, if It's the latter stop interviewing
2-2	Use of piped water supply	Choose one, to see if the establishment uses public water supply system
2-3	If Yes, use of piped water supply	Describe the use
2-4	Number of wells	Total number of wells in the plot of the establishment
2-5	Pump type	Choose the type of pump for each well If there are multiple wells they are named A B and C A is defined as the main well
2-6	Pump capacity (declared)	Read off the label or from the tag, convert units to those given in the survey sheet
2-7	Use of treatment facilities	Choose one, to see if the establishment uses any water treatment facilities
2-8	Type of treatment	Choose all that apply. add if anything else, describe R.O. : Reverse osmosis, UV : Ultra violet ray
2-9	Ownership of the water supply facilities	Who owns the water supply system Choose one
2-10	Name of the owner	If the owner is an organization/company, put the name
2-11	Year and month of installation	Date of construction completed in western calendar date
3.	Well Inventory	
	Well (borehole) structure	<i>For Well A, B, and C up to 3-11</i>
3-1	Depth of borehole (GL- m)	Record for all the wells. Same as total drilling depth,
3-2	Casing diameter (inch)	Nominal diameter of the well (casing pipe)
3-3	Screen location (range in meter)	Depth of well screen, Can be a few different zones
3-4	Observation pipe	If there is a small diameter pipe installed beside the borehole for the purpose of observing water level
3-5	Drilling company name	Name of the drilling contractor who did the drilling
3-6	Water meter	If the well has a water meter or not. Not a pressure gauge
3-7	Pumping amount (m ³ /day)	Estimate the average pumping amount for each season
3-8	Static water level (GL- m)	Estimate the average static water level for each season
3-9	Dynamic water level (GL- m)	Estimate the average dynamic water level for each season
3-10	Hours of operation (hour/day)	Estimate the average number of hours of operation for each season
3-11	Purpose of water supply	Choose one that apply

Table 2.2.1 (b) Well Inventory Survey Instruction

		Specify the use
3-12	Operation system of pump	If the pump is automatically operated or not
3-13	Ease of switching to piped water supply system in terms of the facility (evaluation)	Distance from the road or street more than 50 m ? Necessity to remove existing concrete structures (paving or small building) to connect to public water supply ? Public water supply connection pipes are already installed ?
3-14	Type of Power supply for the facility	Choose all that apply. Count even if the generator is a back up
3-15	Power consumption by the facilities (per month)	Estimate the monthly energy consumption to operate all the facilities in terms of electricity or fuel
3-16	Initial cost of installation of facilities	Check the record or estimate the initial cost of construction of the water supply facilities currently in use. Choose unit
3-17	Operation and maintenance cost of facilities (monthly)	Estimate how much money is spent to operate and maintain the facilities per month. The cost includes labor and energy consumption.
4.	Water Use Awareness Survey	
4-1	Degree of satisfaction with current water supply system (amount)	If the owner is satisfied with the amount of water. Choose one
4-2	Degree of satisfaction with current water quality	If the owner is satisfied with the quality of water Choose one
4-3	Number of persons employed to do O/M of the current water supply facilities	Number of labors (temporary and permanent) to do O/M work If the owner does the work by himself, count "one"
4-4	Type of regularly performed maintenance to the facilities	Work that is done at least once a year and its frequency
4-5	Technical problems of the system's operation	Describe technical problems that are persistent and to be improved
4-6	Aware of the negative impact of groundwater drawing to the cultural remains	If the interviewee is aware of the problems that could be caused by lowering groundwater table due to excessive pumping
4-7	Opinions about above	The owner's attitude (special opinions) toward groundwater drawing problems asked above
4-8	Intention to switch to piped water supply	If the owner intends to switch to piped water supply and stop using groundwater in future. Choose one
4-9	If it Depends, what are the conditions for switching to piped water supply	Choose the category and describe the detail in the case that the answer is ""depends
4-10	If No, to 4-8, what is the reason	Describe the reason
4-11	If Yes to 4-8, what is the reason	Describe the reason
5.	Water quality test	
		<i>Take water sample from reservoir tanks, preferably directly from the wells. Take water before treatment.</i>
5-1	EC	Use a hand-held EC meter
5-2	pH	Use a hand held pH meter
5-3	Fe	Use pack test
5-4	Mn	Use pack test
	<i>Foot Notes</i>	Record any relevant information obtained during the survey

Table 2.2.2 (a) Questionnaire Form for Well Inventory

Well Inventory Survey Questionnaire IDQ

PURPOSES:

The well inventory survey is conducted to (I) obtain basic technical information about groundwater pumping facilities and use by major water consumers in the city. (II) Obtain the owner's perception and attitude of the current water supply and the public water supply services.

1. BASIC INFORMATION OF THE SITE

1.1. Name of establishment					
1.2. Type	1.Hotel <input type="checkbox"/>	2.Restaurant <input type="checkbox"/>	3.School <input type="checkbox"/>	4.Hospital	5.Factory
1.3. How many room, table, bed?			# Room	# Bed	# Table
1.4. Name of interviewee					
1.5. Contact No					
1.6 GPS Coordinate		N		E	
1.7. Elevation of the well (GPS,Map)					

2. BASIC INFORMATION OF THE WATER SUPPLY SYSTEM

2.1. Type of water source	1. Borehole <input type="checkbox"/>		2.Shallow hand dug well <input type="checkbox"/>		
2.2. Use of piped water supply	1.Yes <input type="checkbox"/>			2.No <input type="checkbox"/>	
2.3. If Yes, what for					
2.4. How many well		wells			
2.5. Pump type	<u>Well A</u>		<u>Well B</u>		<u>Well C</u>
	Submersible pump		Submersible pump		Submersible pump

Table 2.2.2 (b) Questionnaire Form for Well Inventory

	Ground pump <input type="checkbox"/>	Ground pump <input type="checkbox"/>	Ground pump <input type="checkbox"/>
2.6. Pump capacity	1.Head	2.Discharge m3/h	3.Power Kw
2.7. Use of treatment facilities	1. Yes <input type="checkbox"/>		2. No <input type="checkbox"/>
2.8. Type of treatment	1. Sand Filtration <input type="checkbox"/>	2. Chlorination <input type="checkbox"/>	3. Ozone <input type="checkbox"/> 4. UV <input type="checkbox"/> 5. R.O <input type="checkbox"/>
2.9. Owner of the water supply	1.Individual <input type="checkbox"/>	2. Company <input type="checkbox"/>	2.10. Name Company
2.11. Date of installed	Month		Year

3. WELL INVENTORY STRUCTURE

3.1. Depth (meter)	Well A:m	Well B:m	Well C:m
3.2. Casing diameter	Well A:cm	Well B:cm	Well C:cm
3.3. Screen location (vary Zones)	Well A:	Well B:	Well C:
3.4. Observation pipe	<u>Well A</u>	<u>Well B</u>	<u>Well C</u>
	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>
	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
3.5. Drilling company name and Contact			
3.6. Water meter	1.Yes <input type="checkbox"/> 2. No <input type="checkbox"/>	1.Yes <input type="checkbox"/> 2. No <input type="checkbox"/>	1.Yes <input type="checkbox"/> 2. No <input type="checkbox"/>
3.7. Pumping amount (m3/day)	<u>Well A</u>	<u>Well B</u>	<u>Well C</u>
	Dry season :	m3	m3
	Wet season:	m3	m3
3.8. Static level (meter)	<u>Well A</u>	<u>Well B</u>	<u>Well C</u>

Table 2.2.2 (c) Questionnaire Form for Well Inventory

	Dry season :	m	m	m
	Wet season:	m	m	m
3.9. Dynamic level (meter)		<u>Well A</u>	<u>Well B</u>	<u>Well C</u>
	Dry season :	m	m	m
	Wet season:	m	m	m
3.10. Hours of operation (per day)		<u>Well A</u>	<u>Well B</u>	<u>Well C</u>
	Dry season :	h	h	h
	Wet season:	h	h	h
3.11. Purpose of water use		1. G. Supply <input type="checkbox"/>	2. S. Pool <input type="checkbox"/>	3. Gardening <input type="checkbox"/>
3.12. Operation system of pump		1. Automatic <input type="checkbox"/>		2. Manual <input type="checkbox"/>
3.13. Ease of switching to pipe water supply		1.Easy <input type="checkbox"/>	2.Intermediate <input type="checkbox"/>	3.Difficult <input type="checkbox"/>
3.14. Type of power supply for the facilities		1.Commercial <input type="checkbox"/>		2.Generator <input type="checkbox"/>
3.15. Power consumption by facilities (per month)	Kwh electricity		Litter of Fuel	
3.16. Initial cost of installation of facilities	US\$:			
3.17. Operation and maintenance cost of facilities		US\$ /Month		

4. WATER USE AWARENESS SURVEY

4.1. Degree of satisfaction with current water supply system	1.Excellent <input type="checkbox"/>	2.Good <input type="checkbox"/>	3.Faire <input type="checkbox"/>	4.Poor <input type="checkbox"/>
4.2. Degree of satisfaction with current water quality	1.Excellent <input type="checkbox"/>	2.Good <input type="checkbox"/>	3.Faire <input type="checkbox"/>	4.Poor <input type="checkbox"/>
4.3. Number of person employed to do O/M of the current water supply facilities	1.Permanent <input type="checkbox"/>		2.Temporary <input type="checkbox"/>	

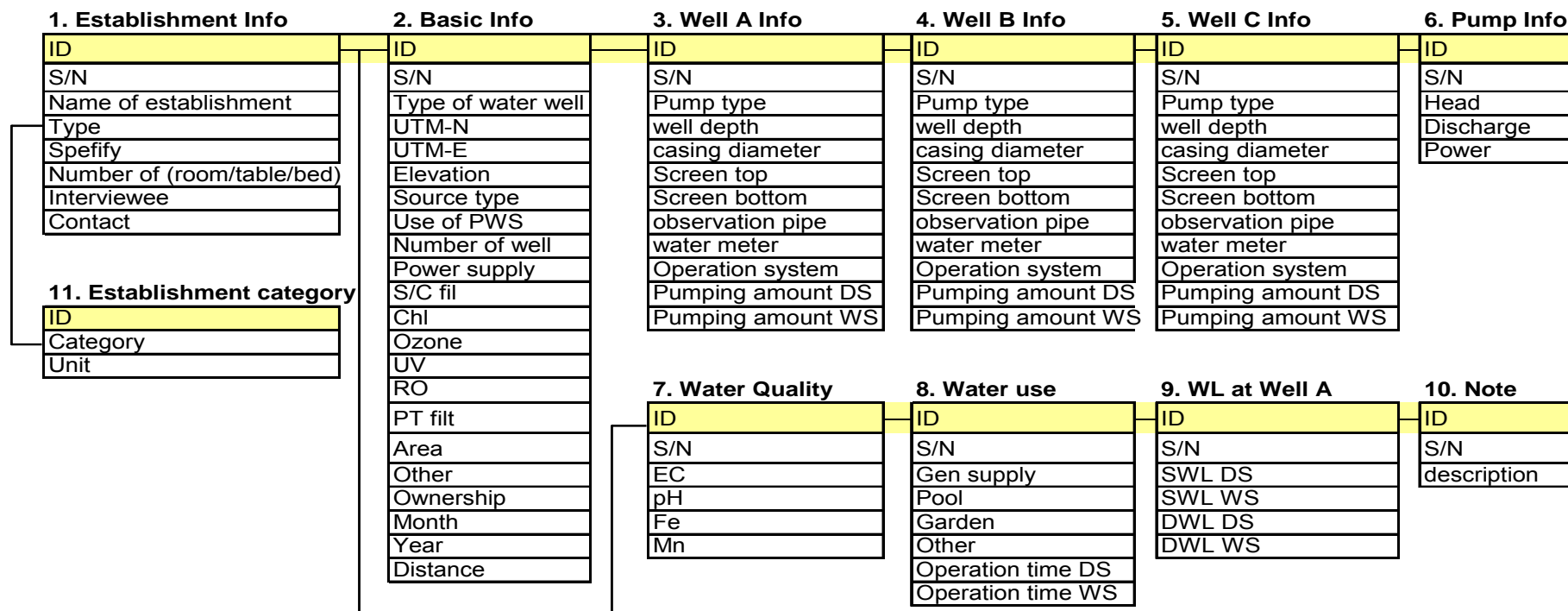
Table 2.2.2 (d) Questionnaire Form for Well Inventory

4.4. Type of regularly performed maintenance	Work:.	Frequency one per year:.	
4.5. Technical problem of the system's operation			
4.6. Aware of the negative impact of ground water drawing to the cultural remains	1.Yes. <input type="checkbox"/> 2.No. <input type="checkbox"/>		
4.7 Opinions about above			
4.8 Intention to switch to pipe water supply	1.Yes <input type="checkbox"/>	2. Depends <input type="checkbox"/>	3.No <input type="checkbox"/>
4.9. If depends, what are the conditions?	1. Cost : <input type="checkbox"/> 2. Quality: <input type="checkbox"/> 3. Amount:. <input type="checkbox"/> 4.Usability condition:..		
4.10. If no, to 4-8, what is the reason			
4.11. If yes, to 4-8, what is the reason			

5. WATER QUALITY TEST

EC	mS/m
pH	
Fe	mg/l/
Mn	mg/l/

Surveyor Name **Date** 2009



Queries

- Parameter query to show data by category
- Parameter query to show establishments lwith a given number of wells
- Parameter query to show wells located within a given distance from a given point
- Parameter query to show wells within a given depth range
- Parameter query to show wells within a given range of SWL
- Parameter query to show wells within a given range of EC, pH, Fe, and Mn

- Parameter query to show wells pumping water of a given range of
- Query to show wells with observation pipe or water meter
- Query to show establishments with water treatment

Figure 2.2 Structures and Relationship of Tables and Type of Queries in the Database

Table 2.2.4 Structure of Well Inventory Data Sheet with Data Sheets

Serial Number	SECTION 1: Basic Information of the Site						
	1.1 Name of Establishment	1.2 Type	1.3 No. of Unit	1.4 Interviewee	1.5 Tel No.	1.6 Coordination System	1.7 Elevation

Serial Number	SECTION 2: Information of the Water Supply System									
	2.1 Source Type	2.2 Use of P.S.	2.3 Purpose	2.4 No. of Well	2.5 Pump Type	2.6 Head, Discharge, Power	2.7 Treatment	2.8 Type of Treatment System	2.9 Ownership	2.10 Company Name

Serial Number	SECTION 3: Well Inventory								
	3.1 Well Depth	3.2 Casing Diameter	3.3 Screen Location	3.4 Observation Pipe	3.5 Drilling Company Name	3.6 Water Meter	3.7 Pumping Amount Dry /Wet Season	3.8 SWL DS/WS	3.9 DWL DS/WS

Serial Number	SECTION 3: Well Inventory								
	3.10 Operation Hour DS/WS	3.11 Purpose	3.12 Pump Operation	3.13 Ease of Switching	3.14 Power Supply	3.15 Power Consumption	3.16 Initial Installation Cost	3.17 Total OM Cost	

Serial Number	SECTION 4: Water Use Awareness Survey								
	4.1 Satisfaction Amount	4.2 Satisfaction Quality	4.3 No. of OM person	4.4 Regular Maintenance Work	4.5 Technical Problems	4.6 Awareness	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends condition

Serial Number	SECTION 4: Water Use Awareness Survey	
	4.10 If No Reason	4.11 If Yes Reason

Serial Number	SECTION 5: Water Quality	
	EC/pH/Fe/Mn	Foot Notes

SECTION 1: Basic Information of the Site									
S.N.	1.1	1.2	1.3	1.4	1.5	1.6	1.7		
	Name of Establishment	Type	Number of (unit)	Interviewee	Contact	UTM-N	UTM-E	Elevation (m)	
238	69	Former Socheata, Boss Club Hotel	Hotel	19 Room	Eng Bunthorn	092435711	1476744	376136	13.61
239	70	Sovann Angkor Hotel	Hotel	30 Room	Seng Sieng	063964039	1477286	376549	15.33
240	71	Sky Way Hotel	Hotel	54 Room	Sok Meng	012369569	1477091	377927	15.01
241	72	Day Inn Hotel	Hotel	64 Room	Touch Sros	063760501	1476885	376811	14.57
242	73	Royal Crown Hotel	Hotel	61 Room	Mom Phirith	063760316	1476084	376716	13.61
243	74	La Residence Angkor Hotel	Hotel	54 Room	Pascal Deyrolle	017405454	1476624	376923	14.31
271	75	Norkor Khmer Hotel	Hotel	35 Room	Bou Kosal	092628697	1478238	377209	16.31
24	1	Luy Lay Guest House	Guesthouse	18 Room	Tek Lina	012883042	1476683	379755	14.67
56	2	Room Rental House Guest House	Guesthouse	11 Room	Chhin Seavy	012898195	1479343	372710	15.14
78	3	My Stores D'Angkor SR Lodge	Guesthouse	24 Room	Philippe Asseln	012636104	1477472	377595	15.20
79	4	Sary Monika Guest House	Guesthouse	8 Room	Chan Monika	092448055	1477190	376070	14.50
80	5	Wat Sup Guest House	Guesthouse	13 Room	Kim	012675881	1475927	376485	13.98
81	6	Fresh Guest House	Guesthouse	12 Room	Suk Theavy	092765627	1476286	376521	14.36
82	7	Chhor Vivorn Guest House	Guesthouse	15 Room	Karona	012554544	1476615	376523	14.06
83	8	Keng Khim Guest House	Guesthouse	20 Room	Chea Hak	012971979	1477056	378763	15.10
84	9	Green Garden Guest House	Guesthouse	16 Room	Lor Soth GM	012791698	1477068	376393	14.51
85	10	Heng An Guest House	Guesthouse	17 Room	Eang Nung	012990556	1476686	376999	14.43
86	11	European Guest House	Guesthouse	10 Room	Henrick	012582237	1476858	377222	14.49
87	12	Angka Marvel Guest House	Guesthouse	16 Room	Seng Hak Seav	092734289	1476053	376724	13.52
88	13	My Home Guest House	Guesthouse	20 Room	Eng Panhrith	012961016	1475682	375872	13.40
89	14	Traing Yiv Guest House	Guesthouse	17 Room	Krang Yiv	012910786	1477097	378032	15.00
90	15	Heng Sopal Guest House	Guesthouse	18 Room	Sok Bun Song	017805651	1476227	377918	13.19
91	16	Dara Guest House	Guesthouse	14 Room	Moeun Charyia	012630448	1476338	376382	14.20
92	17	IVY Guest House	Guesthouse	22 Room	Vam Sophea	012602930	1476545	376672	14.49
93	18	Men Rady Guest House	Guesthouse	25 Room	Som Samen	012867617	1477182	376112	14.38
94	19	Angkorian Guest House	Guesthouse	18 Room	Bil Kheamrak	012911577	1478443	377720	16.25
95	20	KolaB Krohorm Guest House	Guesthouse	15 Room	Sor Kim Lek	012820059	1477340	376072	14.80
96	21	Smiley Guest House	Guesthouse	35 Room	Touch Nara	012852955	1477042	376152	14.01
97	22	Bunnath Guest House	Guesthouse	30 Room	Bun Thann	063963293	1477245	376429	14.95
98	23	Palm Garden Lodge Guest House	Guesthouse	20 Room	Lim Solida	012687372	1476241	375670	13.42
99	24	Baca Villa Guest House	Guesthouse	15 Room	Koe Sopheap	012766357	1476933	376287	14.14
100	25	Siem Reap Riverside Guest House	Guesthouse	21 Room	Meas Sothy	063393938	1475637	376210	14.04
101	26	Garden Village Guest House	Guesthouse	34 Room	Vann Phu Hin	012299000	1476379	375837	13.53
102	27	Pich Chomroeun Guest House	Guesthouse	15 Room	Khorth Sophy	012832278	1477303	375881	14.47
103	28	Mai Ly Ly Guest House	Guesthouse	10 Room	Hok Raksmeay	012705959	1477373	376063	14.85
104	29	Yin Liza Guest House	Guesthouse	32 Room	Prom Vann Pisa	063966378	1477346	376047	14.84
105	30	Phka Chhouk Angkor Guest House	Guesthouse	12 Room	Kang Keng Kheang	092812860	1477075	377812	15.04
106	31	Chen La Guest House	Guesthouse	30 Room	Prum Yean	012910794	1477300	376443	15.27
108	32	Villa Kiara Guest House	Guesthouse	16 Room	ReakSmey	063764156	1475355	377586	12.73
109	33	Lay Sokha Guest House	Guesthouse	18 Room	Hak Lay	012630265	1477119	378434	15.02
110	34	Vimean Spean Neak Guest House	Guesthouse	14 Room	San Sothea	012738788	1477119	378437	15.02
111	35	Home Sweet Home Guest House	Guesthouse	27 Room	Son Sothphearoun	012824626	1476754	377142	14.19
112	36	Golden Banana Guest House	Guesthouse	49 Room	Nou Nup	012345891	1475944	376423	14.09
113	37	Sokchea Guest House	Guesthouse	18 Room	Un Polen	012362240	1476841	379414	14.70
114	38	Leang Chheng Hong Guest House	Guesthouse	30 Room	Eng Uong	012963441	1476698	379718	14.79
115	39	Ryda Angkor Guest House	Guesthouse	14 Room	Piech Chanda	012217491	1477295	375994	14.67
116	40	Lavila Mona D' Angkor Guest House	Guesthouse	10 Room	Dav Srey Oun	015646567	1476324	379606	14.15
117	41	Oeun Narin Guest House	Guesthouse	10 Room	Oeun Narin	012209317	1475880	377790	13.32
118	42	Promh Meas Guest House	Guesthouse	19 Room	Seng Hieng	012351352	1476823	378907	14.84
119	43	Lay Lay Guest House	Guesthouse	15 Room	Hear Kim Sean	011214134	1477393	376102	14.83
120	44	The Princess Mekong Villa Guest House	Guesthouse	11 Room	Baner Frich	012437134	1477293	376194	14.53
121	45	Sok Phal Guest House	Guesthouse	21 Room	Chheang Sopal	012843287	1476233	377914	13.19
122	46	Pavillon Indochine Guest House	Guesthouse	20 Room	Kang Sothea	012849681	1479367	376920	17.28
123	47	Winter Guest House	Guesthouse	15 Room	Oum Sphin	012940659	1476941	378769	15.10
124	48	Cookie House Guest House	Guesthouse	20 Room	Sam Savoieun	016888485	1476993	378765	15.10
125	49	Sang Nang Vathana Guest House	Guesthouse	10 Room	Choeun Vhut	012654069	1477358	376023	14.78
126	50	Angkor Seilapich Guest House	Guesthouse	20 Room	Sor Nakun	012582159	1477331	376140	14.70
127	51	Yellow Guest House	Guesthouse	32 Room	Bou Savin	017568007	1477315	376126	14.69
128	52	Golden Mango Guest House	Guesthouse	24 Room	Chiep Cheung	092630252	1476732	379012	14.44
129	53	Heng Khim Guest House	Guesthouse	19 Room	So Chiet	016677787	1477053	378769	15.10
130	54	Radeth Angkor Guest House	Guesthouse	17 Room	Ya Deth	012728639	1476833	378311	14.76
131	55	Angkor View Guest House	Guesthouse	37 Room	Deab Saren	011802716	1476878	378254	14.41
132	56	Angkor Daisy Guest House	Guesthouse	21 Room	Ban Phally	012849938	1476769	378266	14.64
133	57	Angkor Tip Guest House	Guesthouse	21 Room	Chor Chanda	089360595	1477290	377199	15.10
134	58	Relax & Resort Angkor Guest House	Guesthouse	29 Room	Bun Heang	017880368	1476868	378068	14.11
135	59	Star D' Angkor Guest House	Guesthouse	8 Room	Chin Seang	012910176	1476874	377060	15.44

SECTION 1: Basic Information of the Site									
S.N.	1.1	1.2	1.3	1.4	1.5	1.6		1.7	
	Name of Establishment	Type	Number of (unit)	Interviewee	Contact	UTM-N	UTM-E	Elevation (m)	
136	60 Jasmine Lodge & Restaurance	Guesthouse	26 Room	Nuon Seth	012934998	1477420	376254	15.08	
137	61 Tan Kang Guest House	Guesthouse	35 Room	Kim Hout	063965288	1476127	376235	14.10	
138	62 Long Live Angkor Guest House	Guesthouse	20 Room	Po Pheaktry	012843462	1477193	376388	14.54	
139	63 Kim Teung Guest House	Guesthouse	10 Room	Kim Teung	012910784	1477045	377993	15.06	
140	64 Odom Lina Guest House	Guesthouse	25 Room	Prom Bunly	012881628	1477816	376317	15.15	
141	65 Angkor Sok San Guest House	Guesthouse	20 Room	Sor Heng	012944669	1477366	376113	14.78	
142	66 Prasat Koe Moon Raise Guest House	Guesthouse	22 Room	Sor Bun Theng	012255365	1477360	376064	14.83	
143	67 Pagna Angkor Guest House	Guesthouse	27 Room	Eang Sokum	092222212	1476765	378292	14.62	
144	68 Norkor Thom Guest House	Guesthouse	23 Room	Sor Kim Thom	012944671	1477320	376114	14.72	
145	69 Chomroung Chomroeu Guest House	Guesthouse	12 Room	Chheum Chom ROUNG	012563594	1477337	375980	14.67	
146	70 Coconut Villa Guest House	Guesthouse	26 Room	Chea Punnok	017880380	1476871	375987	13.90	
147	71 Bakong Lodge Guest House	Guesthouse	21 Room	Soun Vutha	017620762	1476166	376228	14.05	
148	72 Tania Guest House	Guesthouse	27 Room	Say Kim Eang	092865051	1476044	375990	13.63	
149	73 Shadow of Angkor II Guest House	Guesthouse	21 Room	Seng Sokchea	0979995273	1476292	376850	13.96	
150	74 Ung Long Guest House	Guesthouse	20 Room	Keat Sok Leang	012881298	1476421	378130	13.32	
151	75 Angkor Grand Guest House	Guesthouse	15 Room	Sok Tong	012992230	1476894	378698	15.08	
152	76 Green Park Guest House	Guesthouse	37 Room	Kong Som Sophal	012775393	1476859	378711	15.05	
153	77 Green Town Guest House	Guesthouse	27 Room	Chhun Chhay	012223666	1476726	376987	14.51	
154	78 Avoma Daily Guest House	Guesthouse	16 Room	Moun Rontoeu	016675859	1476377	375931	13.59	
155	79 Seven In Guest House	Guesthouse	26 Room	An Seyla	089617195	1475986	376455	14.11	
156	80 Golden village Guest House	Guesthouse	27 Room	Ly Sok Kreach	012680131	1476194	377564	13.38	
157	81 Mohanokor Guest House	Guesthouse	20 Room	Tuot Mathly	012397072	1476658	376938	14.36	
158	82 Popular Guest House	Guesthouse	28 Room	Vun Chum	012916165	1476018	376204	14.26	
159	83 Takeo Guest House	Guesthouse	25 Room	Prom Chakria	092593473	1477306	376468	15.39	
160	84 Lysakura Village Guest House	Guesthouse	13 Room	Ly Leng	012963404	1476368	376882	14.13	
161	85 Angkor Voyage Guest House	Guesthouse	12 Room	Chhin Vichay	012933080	1476299	376122	13.57	
162	86 Victory Guest House	Guesthouse	50 Room	Arg Vanny	012451286	1477357	376237	14.73	
167	87 Hoksan Chakria Guest House	Guesthouse	16 Room	Hoksan Charia	012293656	1478942	376532	16.33	
168	88 Rumdoul Krong Siem Reap Guest Hou	Guesthouse	19 Room	Van Chhoy	012958921	1477015	376268	14.13	
169	89 Rega Guest House	Guesthouse	8 Room	Sam Oeur	012897205	1477991	376508	15.54	
170	90 Rady Guest House	Guesthouse	25 Room	Suy Rady	012778349	1477188	376107	14.40	
171	91 Reak Smey Monorom Guest House	Guesthouse	17 Room	Eng Odom	085385863	1477407	376088	14.87	
172	92 Preah Khan Guest House	Guesthouse	16 Room	Prang Sophai	012990583	1477154	376166	14.19	
173	93 Ba Poun II Guest House	Guesthouse	6 Room	Van Chhay	012629284	1476284	377006	13.52	
178	94 D & D Angkor Villa Guest House	Guesthouse	18 Room	Srey Lin	092277025	1477632	376201	15.11	
179	95 99 Sen Sok Guest House	Guesthouse	9 Room	Boeng Boeun	092488099	1475858	378575	13.65	
182	96 Phoum Khmer Guest House	Guesthouse	37 Room	Ny Kourou	012385144	1478079	376296	15.29	
184	97 Love Inn Guest House	Guesthouse	13 Room	Sirb Sreylak	092461592	1479353	372717	15.16	
217	98 Hang Meas Guest House	Guesthouse	8 Room	Sok Hang Meas	012285263	1477336	375974	14.66	
220	99 Big Lina Guest House	Guesthouse	13 Room	Saay Ross	012778096	1476497	376845	14.33	
221	100 Angkor Than City Guest House	Guesthouse	13 Room	Noun Sakheath	063965279	1476508	376847	14.34	
222	101 Pavillion D'Orent Guest House	Guesthouse	18 Room	Bun San	012419274	1477390	379023	15.41	
229	102 Bab Bel Guest House	Guesthouse	24 Room	Im Gath	092582735	1476906	377216	14.93	
230	103 Rung Roeung Guest House	Guesthouse	12 Room	Eang Phalla	017393948	1479588	379012	18.05	
231	104 Tony & John Tan Guest House	Guesthouse	20 Room	Sok Vanatha	012552291	1475214	375845	13.41	
235	105 Mitrey Guest House	Guesthouse	26 Room	Kong Koenu	012799207	1477366	376113	14.78	
236	106 Apsara Steung Thmey Guest House	Guesthouse	20 Room	Liem Spheak	017433233	1476150	376056	13.71	
237	107 Tropical Breeze Guest House	Guesthouse	14 Room	Om Bunhas	012963749	1475944	376423	14.09	
244	108 Earthwalkers Guest House	Guesthouse	21 Room	Skiphorn	063760107	1477892	375210	14.93	
275	109 Bun Koa Guest House	Guesthouse	14 Room	Gnea Reyin	063966589	1476898	377235	14.81	
276	110 Virak Angkor Guest House	Guesthouse	27 Room	Pothy	012237456	1477878	376326	15.13	
277	111 Boun Savy Guest House	Guesthouse	25 Room	Horn Bovuth	012898627	1477538	376360	15.24	
280	112 Akona Daily Guest House	Guesthouse	15 Room	Soeun Tith	089331119	1475865	376496	13.73	
219	113 Pao Mean Chey	Guesthouse	10 Room	Chhoeun Samuth	012437254	1477263	375621	14.38	
232	114 Rath Buntha	Guesthouse	10 Room	Chhoeun Seda	092289928	1477297	376008	14.71	
233	115 Gold Eagle	Guesthouse	8 Room	Chhoeun Meas	092170070	1477444	375957	14.60	
202	1 Angkor Reach Restaurant	Restaurant	103 Seat	Chheng Vanna	016444488	1482643	376797	22.20	
203	2 Tany Restaurant	Restaurant	500 Seat	Kim Chron Samrithy	012876012	1477171	376055	14.50	
204	3 Happy Garden Restaurant	Restaurant	140 Seat	Heng Chhumly	012822107	1477731	376145	15.23	
205	4 Molosbov Siem Reap Restaurant	Restaurant	144 Seat	Thlok Savy	012815151	1477920	376392	15.12	
206	5 Banteay Srey Thmey Restaurant	Restaurant	1200 Seat	Tam Chan Samol	012776944	1479278	373704	15.49	
207	6 Kravan Siem Reap Restaurant	Restaurant	120 Seat	Chruk Sopheap	012350699	1477675	376153	15.15	
208	7 Wan jia Xiang Sea Food Restaurant	Restaurant	268 Seat	Oung Phary	012238676	1477619	375824	15.05	
209	8 Neat 168 Restaurant	Restaurant	60 Seat	Uy Sokha	092648562	1478642	378021	16.62	
210	9 Meeting Night Restaurant	Restaurant	248 Seat	Sun Sphean	092550919	1478619	377976	16.48	
211	10 Wanly Xiang Restaurant	Restaurant	200 Seat	Sang Sokhom	012651377	1475614	377710	12.99	

SECTION 1: Basic Information of the Site								
S.N.	1.1	1.2	1.3	1.4	1.5	1.6		1.7
	Name of Establishment	Type	Specific Number of (unit)	Interviewee	Contact	UTM-N	UTM-E	Elevation (m)
212	11 Samapheap Thmey 1-2 Restaurant	Restaurant	1600 Seat	Hourt Khiv	092654949	1475587	375021	12.27
213	12 Baphoun Restaurant	Restaurant	240 Seat	Phat Sovann	012477221	1477861	376093	15.39
214	13 Mebon Restaurant	Restaurant	120 Seat	Sor Mony	012293636	1477881	376221	15.29
215	14 Mohanorkor Restaurant	Restaurant	270 Seat	Keo Visal	012930066	1477954	376171	15.29
216	15 Baray Toeuk Thlar Restaurant	Restaurant	120 Seat	Khean Sokane	017313284	1477850	376209	15.31
245	16 Bopha Angkor Sharke fim's soupII Res	Restaurant	1000 Seat	Pav Rida	012573384	1478760	378168	16.74
246	17 Amazon Angkor Restaurant	Restaurant	100 Seat	Im Sophal	012966988	1478209	375854	15.31
247	18 Angkor Mondial Restaurant	Restaurant	300 Seat	Pin Bun Thoeun	012352900	1476690	376706	14.54
248	19 Shint's family Restaurant	Restaurant	120 Seat	Siet Sophea	092498387	1478711	374617	15.30
249	20 Kesorkole Restaurant	Restaurant	120 Seat	Prak Sphal	012636138	1476369	375851	13.57
250	21 Ex Sky Restaurant	Restaurant	150 Seat	Sun Sok Vathana	012888708	1477817	376040	15.34
251	22 Apollopalza Restaurant	Restaurant	800 Seat	Sang Sok Chheang	012388770	1476405	381151	14.52
252	23 Chhng Song Restaurant	Restaurant	200 Seat	Seng Kim Sour	012369516	1478554	374627	15.29
253	24 Madam Butterfly Restaurant	Restaurant	50 Seat	Srey Touch	016909607	1477972	375370	15.33
254	25 Phnom Srey II Restaurant	Restaurant	140 Seat	Ty Bros	012726964	1478728	377713	17.36
255	26 Neary Khmer Restaurant	Restaurant	120 Seat	Gimeav Toeum	012422247	1477228	377181	14.98
256	27 Bopha Leak Kloun Restaurant	Restaurant	100 Seat	Chea Sokuntheary	017823232	1476695	376110	13.43
257	28 Lucky Angkor Restaurant	Restaurant	100 Seat	Oak Samath	012440301	1478722	374428	14.95
258	29 Thida Spean Neak Restaurant	Restaurant	160 Seat	Hong Thida	012307902	1478725	377429	16.92
259	30 The Soup Dragon Restaurant	Restaurant	152 Seat	Ouk Kim Hong	063964933	1476357	376434	14.24
260	31 Orchidee Angkor Restaurant	Restaurant	120 Seat	Khim Phana	017849148	1477104	376306	14.26
261	32 Borie Sovann Restaurant	Restaurant	240 Seat	Mam Sopham	012224103	1477794	377182	15.47
262	33 Kobe Restaurant	Restaurant	75 Seat	Chrouk Thet	092773986	1478828	374128	15.45
263	34 Tonle Mekong Restaurant	Restaurant	200 Seat	Kim Hok	092927653	1478598	374272	14.72
264	35 Bayon I Restaurant	Restaurant	260 Seat	Chea Bunny	012856569	1476959	377162	20.93
265	36 Jasmine Angkor Restaurant	Restaurant	120 Seat	Chheang Chormol	012365888	1476767	376155	13.66
266	37 Tonle Sap Restaurant	Restaurant	320 Seat	Sok Heng	012752128	1477558	376142	15.12
267	38 Samakpheap Restaurant	Restaurant	160 Seat	Hout Kong Pheng	092588886	1476998	377043	25.93
268	39 Seng Fett Restaurant	Restaurant	75 Seat	Sok Roath	012307733	1477067	377173	21.34
269	40 Angkor Power Restaurant	Restaurant	350 Seat	Put Soveasna	017524448	1477799	375859	15.42
5	1 Klar Horh Mean Chay Ice Factory	Factory		Meang Kim Heang	012990598	1476668	380846	14.63
180	2 Heang Hok Khean Ice Factory	Factory		Hok Kheang	012828125	1476926	379383	14.73
181	3 Chhouk Roth Thmey Ice Factory	Factory		Tang Kea	012840011	1476233	376835	13.78
186	4 Bayon Fresh Water	Factory		Khoy Chhin	012886464	1475591	378024	12.96
187	5 Ice Factory	Factory		Hea Chun	012949679	1476486	378567	14.16
188	6 Angkor Fresh Factory	Factory		Lorm Lin	012808285	1475195	376147	13.34
226	7 Boeung Malea Factory	Factory		Sem Ry	017229818	1475013	376045	13.04
227	8 Tram Neak Factory	Factory		Meng	012909935	1475519	379117	13.69
228	9 Phsar Krom Factory	Factory		Aing Ho Chhe	012980587	1473450	374926	10.50
270	10 Ny Mey Factory	Factory		Poy Sopheap	011865696	1476397	370851	11.10
3	1 Sokha Pheap Clinic	Other	Hosp	Lyturun	063963486	1477437	376235	15.10
4	2 Ing Horn car wash	Other	Car wash	Ing Horn	092746420	1477825	375713	15.46
6	3 Long ChomReoun Car Wash	Other	Car wash	ChomRoeun Sopana	012377432	1476339	376911	13.99
7	4 77 Car Wash	Other	Car wash	Hay Sareth	015809898	1475947	377760	13.43
8	5 Rokha Car Wash	Other	Car wash	Chan Nara	012914692	1476070	376797	13.37
9	6 Phal Sophorn Car wash	Other	Car wash	Phal Sophorn	012462293	1477764	376797	15.19
10	7 Chhay Sopheap Car Wash	Other	Car wash	Chhay Sopheap	012413948	1476329	376834	14.14
11	8 Prock Mean-Car wash	Other	Car wash	Leng Pisal	012909355	1475969	377778	13.34
12	9 Sun Ly Car Wash	Other	Car wash	Sun Ly	017862223	1476731	379723	14.97
59	10 Vyra Car Wash	Other	Car wash	Yok Thavara	012235322	1477800	375766	15.45
60	11 Heng Heng Car Wash	Other	Car wash	Chhin Taing Chhea	012695553	1478512	374639	15.35
61	12 71 Car Wash	Other	Car wash	Hen Sok	017954671	1475648	375554	12.99
62	13 Borei Prim Prey Car Wash	Other	Car wash	Bun Hak	012852064	1479225	377012	17.06
63	14 Deum Ampil Car Wash	Other	Car wash	Vy Von	012602906	1475863	376219	14.33
64	15 Seng Try Car Wash	Other	Car wash	Bun Heang	012433838	1476750	379894	15.03
65	16 Nget Sokha Car Wash	Other	Car wash	Nget Sokha	017345156	1475660	377864	12.79
66	17 Dara Car Wash	Other	Car wash	Tea FooDara	015711979	1475804	377533	13.09
67	18 Doem Svay Car Wash	Other	Car wash	Lao Boncheng	017880002	1476837	379513	14.71
68	19 Ben Lan Car Wash	Other	Car wash	Sou Bun Navy	012734562	1476210	379589	14.21
69	20 Doem Rolous Car Wash	Other	Car wash	Sin Sokheng	012773711	1476194	376682	14.01
70	21 Ang Kropoe Car Wash	Other	Car wash	Meas Khuntheary	012834160	1475589	376303	13.72
71	22 Kak Sekam Car Wash	Other	Car wash	Horm Viseth	012898295	1479732	372712	15.17
72	23 Yung Loy Car Wash	Other	Car wash	Mek Kim Tearp	012664522	1478564	374549	15.24
73	24 Me Kong Car Wash	Other	Car wash	Sokheng	016368836	1478674	377581	17.00

SECTION 1: Basic Information of the Site									
S.N.	1.1	1.2	1.3	1.4	1.5	1.6		1.7	
	Name of Establishment	Type	Number of (unit)	Interviewee	Contact	UTM-N	UTM-E	Elevation (m)	
74	25 Spean Neak Car Wash	Other	Car wash	Dara Yim	012996282	1478689	377499	17.01	
75	26 Mayan Car Wash	Other	Car wash	Ma Davuth	012227574	1476335	376905	14.00	
189	27 Wat Svay Car Wash	Other	Car wash	Heng Lin	092636870	1474643	376062	13.13	
190	28 Chean Dy, car wash	Other	Car wash	Muth Kong	092718931	1475568	375797	13.39	
191	29 Srey Leak Car Wash	Other	Car wash	Hang Sophal	012294649	1477259	377215	15.06	
192	30 Tiv Heng Car Wash	Other	Car wash	Tang Kea	012302333	1477043	377554	15.04	
193	31 Tiv Dyna Car Wash	Other	Car wash	Dyna	012821150	1477251	376660	15.03	
194	32 Cheang Hong Car Wash	Other	Car wash	Teng Hong	012708783	1476568	378246	14.06	
223	33 Madonna Karaoke	Other	Ente	Chet	012301757	1475202	370082	9.50	
234	34 Top Town Club Karaoke	Other	Ente	Hok Vanna	012904678	1477805	375078	14.62	
273	35 New Star Karaoke	Other	Ente	Sok Heang	012849328	1476194	377962	12.85	
274	36 Pyramid Karaoke	Other	Ente	Tony	012238888	1476800	370730	11.40	
1	37 SMART KID School	School	Schc	Sok Chan	099963262	1476311	377446	13.19	
2	38 USA International School	School	Schc	Kun	017364067	1476334	377431	13.22	
57	39 USEA University	School	Schc	Sieng Sovnna	036963853	1475881	377409	12.86	
58	40 BBU University	School	Schc	Kang Chantha	012727979	1475614	375505	12.98	

The Preparatory Study on The Siem Reap Water Supply Expansion Project

SECTION 2: Information of the Water Supply System																											
S.N.	2.1		2.2		2.3		2.4			2.5			2.6			2.7					2.8			2.9	2.10	2.11	
	Source Type	Use of P.S.	Purpose	No of Wel	A	Pump Type B C	Head (m)	Discharge (m3/h)	Power (Kw)	Treatment	Type S/C Fil.	Chl.	Ozone	U.V.	R.O.	PT Fil.	Aera.	Other	Ownership	Company name	Installation Date Month Year						
136	60	Borehole	Yes	For general use	1	Ground	28	6.6	0.75	No									Individual	NAP	3 2000						
137	61	Borehole	Yes	For general use	1	Ground	38	6.6	0.75	No									Individual	NAP	5 2001						
138	62	Borehole	Yes	For general use	1	Ground	20	6.6	0.75	No									Individual	NAP	1 2001						
139	63	Borehole	Yes	For general use	1	Ground	38	6.6	0.75	No									Individual	NAP	1 1999						
140	64	Borehole	No	NAP	1	Submersible	28	6.6	0.75	Yes	Yes							Activate	Individual	NAP	3 2006						
141	65	Borehole	No	NAP	1	Ground	15	8	0.75	No									Individual	NAP	1984						
142	66	Borehole	No	NAP	1	Ground	15	8	0.75	No									Individual	NAP	1984						
143	67	Borehole	No	NAP	1	Ground	38	6.6	0.75	No									Individual	NAP	2000						
144	68	Borehole	No	NAP	1	Ground	28	6.6	0.75	No									Individual	NAP	12 2002						
145	69	Borehole	No	NAP	1	Ground	15	8	0.75	No									Individual	NAP	2 2004						
146	70	Borehole	Yes	For general use	1	Ground	24	6	0.37	No									Individual	NAP	2006						
147	71	Borehole	No	NAP	1	Ground	24	6	0.37	No									Individual	NAP	1999						
148	72	Borehole	Yes	For general use	1	Ground	38	6.6	0.75	No									Individual	NAP	1983						
149	73	Borehole	Yes	For general use	1	Ground	38	6.6	0.75	No									Individual	NAP	2 2009						
150	74	Borehole	Yes	For general use	1	Ground	41	7.2	1.1	No									Individual	NAP	1990						
151	75	Borehole	No	NAP	1	Ground	40	8	1.1	No									Individual	NAP	2000						
152	76	Borehole	Yes	For general use	1	Ground	36	5.4	0.75	Yes	Yes								Individual	NAP	1998						
153	77	Borehole	Yes	For general use	1	Ground	12	4	0.37	No									Individual	NAP	2000						
154	78	Borehole	No	NAP	1	Ground	24	6	0.37	No									Individual	NAP							
155	79	Borehole	No	NAP	1	Ground	38	6.6	0.75	No									Individual	NAP	12 2002						
156	80	Borehole	No	NAP	1	Ground	41	7.2	1.1	No									Individual	NAP	2003						
157	81	Borehole	Yes	For general use	1	Ground	41	7.2	1.1	No									Individual	NAP	1996						
158	82	Borehole	Yes	For general use	1	Ground	38	6.6	0.75	No									Individual	NAP	4 2000						
159	83	Borehole	Yes	For kitchen and	1	Ground	38	6.6	0.75	No									Individual	NAP	5 2003						
160	84	Borehole	Yes	For general use	1	Ground	20	8	0.75	Yes	Yes		Yes						Individual	NAP	10 2000						
161	85	Borehole	Yes	For general use	1	Ground	38	6.6	0.75	No									Individual	NAP	11 2008						
162	86	Borehole	Yes	For general use	1	Ground	15	5.4	0.37	No									Individual	NAP	1980						
167	87	Borehole	No	NAP	1	Ground	28	8	1.5	Yes	Yes								Individual	NAP	1 2006						
168	88	Borehole	No	NAP	1	Ground	25	6	0.75	Yes			Yes						Individual	NAP	2 2006						
169	89	Borehole	No	NAP	1	Ground	20	6	0.75	Yes	Yes								Individual	NAP	8 2007						
170	90	Borehole	No	NAP	1	Ground	41	7.2	2.25	No									Individual	NAP	2 2005						
171	91	Borehole	No	NAP	1	Ground	20	5.4	0.75	Yes		Yes							Individual	NAP	1 2002						
172	92	Borehole	No	NAP	1	Ground	28	8	1.5	Yes	Yes								Individual	NAP	1 2004						
173	93	Borehole	No	NAP	1	Ground	20	5.4	0.75	Yes		Yes							Individual	NAP	12 2002						
178	94	Borehole	No	NAP	1	Ground	28	5	1.5	Yes	Yes								Individual	NAP	2 2005						
179	95	Borehole	No	NAP	1	Ground	28	6	0.75	No									Individual	NAP	2 2008						
182	96	Borehole	Yes	For general use	1	Submersible	15	4.5	0.37	No									Individual	NAP	5 2005						
184	97	Borehole	No	NAP	1	Ground	38	6.6	0.75	Yes	Yes								Individual	NAP	5 2007						
217	98	Borehole	No	NAP	1	Ground	28	6.6	0.75	No									Individual	NAP	1 2007						
220	99	Borehole	No	NAP	1	Ground	20	6.6	0.75	No									Individual	NAP	10 1998						
221	100	Borehole	No	NAP	1	Ground	20	6.6	0.75	Yes	Yes	Yes							Individual	NAP	8 2005						
222	101	Borehole	No	NAP	1	Ground	28	10	2.25	Yes	Yes		Yes	Yes					Individual	NAP	2 2008						
229	102	Borehole	No	NAP	1	Ground	28	6	1.5	Yes	Yes								Individual	NAP	1 2008						
230	103	Borehole	No	NAP	1	Ground	20	5	0.75	No									Individual	NAP	1 2007						
231	104	Borehole	No	NAP	1	Ground	20	6.6	0.75	No									Individual	NAP	6 2003						
235	105	Borehole	Yes	General supply	1	Ground	36	6.6	0.75	No									Individual	NAP	5 2005						
236	106	Borehole	Yes	General supply	1	Ground	18	5.4	0.37	No									Individual	NAP	1 2005						
237	107	Borehole	Yes	General supply	1	Ground	38	6.6	0.75	No									Individual	NAP	1 2009						
244	108	Borehole	No	NAP	1	Submersible	28	6.6	0.75	Yes		Yes							Individual	NAP	11 2007						
275	109	Borehole	No	NAP	1	Ground	28	6	2.2	Yes	Yes		Yes						Individual	NAP	12 2008						
276	110	Borehole	No	NAP	1	Ground	25	6	1.5	Yes	Yes								Individual	NAP	2 2009						
277	111	Borehole	No	NAP	1	Ground	28	6	1.5	Yes	Yes								Individual	NAP	1 2006						
280	112	Borehole	Yes	General supply	1	Ground	38	6.6	0.75	No									Individual	NAP	2 2008						
219	113	Borehole	No	NAP	1	Ground	28	6.6	0.75	No									Individual	NAP	5 2008						
232	114	Borehole	No	NAP	1	Ground	28	6.6	0.75	No									Individual	NAP	11 2000						
233	115	Borehole	No	NAP	1	Ground	20	6.6	0.75	No									Individual	NAP	3 2009						
202	1	Borehole	No	NAP	1	Ground	12	6	0.37	No									Individual	NAP	2 1999						
203	2	Borehole	No	NAP	1	Ground	24	6	0.37	No									Individual	NAP	2000						
204	3	Borehole	No	NAP	1	Ground	40	8.4	1.1	No									Individual	NAP	7 2008						
205	4	Borehole	No	NAP	1	Ground	38	6.6	0.75	No									Individual	NAP	9 2008						
206	5	Borehole	Yes	General supply	2	Ground	38	6.6	0.75	No									Individual	NAP							
207	6	Borehole	No	NAP	1	Ground	24	6	0.37	No									Individual	NAP	9 2002						
208	7	Borehole	No	NAP	1	Ground	38	6.6	0.75	No									Individual	NAP	2002						
209	8	Borehole	No	NAP	1	Ground	24	6	0.37	No									Individual	NAP	2004						
210	9	Borehole	No	NAP	1	Ground	20	5	0.75	No									Individual	NAP	2005						
211	10	Borehole	No	NAP	1	Ground	24	6	0.37	No									Individual	NAP	5 2007						

SECTION 2: Information of the Water Supply System																																				
S.N.		2.1				2.2			2.3			2.4			2.5			2.6							2.7	2.8						2.9	2.10		2.11	
		Source Type	Use of P.S.	Purpose	No of Well	A	B	C	Head (m)	Discharge (m3/h)	Power (Kw)	Treatment	Type	S/C Fil.	Chl.	Ozone	U.V.	R.O.	PT Fil.	Aera.	Other	Ownership	Company name	Month	Year											
74	25	Borehole	No	NAP	1	Ground		32	6	2.25	Yes	Yes									Individual	NAP	10	2005												
75	26	Borehole	Yes	For general use	1	Ground		30	6	2.25	Yes	Yes									Individual	NAP	12	2004												
189	27	Borehole	No	NAP	1	Ground		20	6.6	0.75	No										Individual	NAP		2002												
190	28	Borehole	No	NAP	1	Ground		20	5.4	0.75	No										Individual	NAP		2007												
191	29	Borehole	No	NAP	1	Ground		28	6	1.5	No										Individual	NAP		2008												
192	30	Borehole	No	NAP	1	Ground		25	6	1.5	Yes	Yes									Individual	NAP	7	2008												
193	31	Borehole	No	NAP	1	Ground		25	8	1.5	Yes	Yes									Individual	NAP		2005												
194	32	Borehole	No	NAP	1	Ground		25	8	2.25	Yes					Yes					Individual	NAP		2008												
223	33	Borehole	No	NAP	1	Ground		28	6	1.5	No										Individual	NAP	9	2008												
234	34	Borehole	No	NAP	1	Ground		23	6.6	0.75	No										Individual	NAP	4	2009												
273	35	Borehole	No	NAP	1	Submersible		50	20	4.4	Yes	Yes	Yes								Individual	NAP	1	2009												
274	36	Borehole	No	NAP	1	Ground		25	15	3	Yes	Yes									Individual	NAP	12	2008												
1	37	Borehole	No	NAP	1	Ground		8	5.5	0.75	Yes					Yes					Individual	NAP		2009												
2	38	Borehole	No	NAP	1	Ground		8	3.2	0.37	No										Individual	NAP		2005												
57	39	Borehole	No	NAP	1	Ground		38	6	2.25	Yes	Yes									Individual	NAP	7	2006												
58	40	Borehole	No	NAP	1	Ground		38	6	2.25	Yes	Yes									Individual	NAP	5	2004												

SECTION 3: Well Inventory																
S.N.		3.1 Well Depth (GL- m)			3.2 Casing Diameter (mm)			3.3 Screen Location (m)			3.4 Observation Pipe			3.5 Drilling Company Name		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
13	1	30			42.00			NA			No					Don't know
14	2	35	35		49.00	49.00		NA			No	No				Don't know
15	3	45	45		100.00	100.00		NA	NA		No	No				Don't know
16	4	60	60		150.00	150.00		45-60	45-60		No	No				Don't know
17	5	50	50		100.00	150.00		NA	NA		No	No				Don't know
18	6	60	60		100.00	100.00		NA	NA		No	No				Don't know
19	7	60			100.00			NA			No					Don't know
20	8	60			100.00			NA			No					Don't know
21	9	60			100.00			NA			No					Don't know
22	10	40	40		100.00	100.00		NA	NA		No	No				Don't know
23	11	45	45		100.00	100.00		35-45	35-45		No	No				Don't know
25	12	35			100.00			NA			No					Don't know
26	13	48	48		100.00	100.00		35-45	35-45		No	No				Hoon
27	14	65	65		100.00	100.00		50-65	50-65		No	No				Ta Phorn
28	15	68	68		150.00	150.00		50-68	50-68		Yes	Yes				Thai's Co
29	16	62			150.00			50-62			Yes					Thai's Company
30	17	44	44	44	100.00	100.00	60.00	36-44	36-44	36-44	No	No	No			Hoon
31	18	45	45		100.00	100.00		NA	NA		No	No				Don't know
32	19	40	40	40	100.00	100.00	100.00	NA	NA	NA	No	No	No			Don't know
33	20	60	60		150.00	150.00		48-60	48-60		Yes	Yes				Khmer M
34	21				150.00	150.00		NA	NA		No	No				Khmer Morn
35	22	65			150.00			53-65			No					Don't know
36	23				150.00	150.00		NA	NA		No	No				Don't know
37	24	35			49.00			NA			No					Don't know
38	25	50			100.00			NA			No					Chea Kim Song
39	26				60.00			NA			No					Don't know
40	27	60			100.00			NA			No					Don't know
41	28	42			100.00			NA			No					Penh Chet
42	29	30			42.00			NA			No					Don't know
43	30	38			100.00			NA			No					Don't know
44	31	80			300.00			NA			No					Don't know
45	32	35			100.00			23-35			No					Tiem Rem
46	33	38			42.00			NA			No					Don't know
47	34	70			60.00			NA			No					Don't know
48	35	20			49.00			NA			No					Don't know
49	36				100.00			NA			No					CPS Cambodia
50	37	30	30		100.00	60.00		NA	NA		Yes	No				Don't know
51	38	40	40		100.00	100.00		NA	NA		Yes					Don't know
52	39	30			49.00			NA			No					Don't know
53	40	68			150.00			NA			No					Penh Chet
54	41	40	35		100.00	100.00		NA	NA		Yes	No				Don't know
55	42	35			100.00			NA			Yes					Don't know
76	43	40			100.00			31-43			No					Don't know
77	44	70	70		100.00	100.00		NA			Yes	No				Reetech
107	45	30			42.00			NA			No					Reetech
163	46	43			100.00			NA			No					Don't know
164	47	45			100.00			33-45			No					Chea Phorn
165	48	46			100.00			30-46			No					Houn
166	49	43			100.00			30-43			No					Houn
174	50	45			100.00			30-45			No					Houn
175	51	38			100.00			30-38			No					Ta Phorn
176	52	40			100.00			30-40			No					Ta Phorn
177	53	35			100.00			27-35			No					Say
183	54	40			100.00			30-40			No					Don't know
185	55	65			150.00			50-65			No					Don't know
195	56	40			49.00			NA			No					Don't know
196	57	60			150.00			NA			No					Don't know
197	58	30			100.00			22-30			Yes					Don't know
198	59	60	60	60	200.00	200.00	200.00	45-60	45-60		Yes	Yes	Yes			Don't know
199	60	40			200.00			30-40			No					Don't know
200	61	40			200.00			30-40			No					Ta Phorn
201	62	40			100.00			30-40			No					Don't know
218	63	30			42.00			NA			No					Don't know
272	64	45			100.00			33-45			No					Don't know
224	65	48			100.00			36-48			No					Chhin Muny
225	66	26			60.00			18-26			No					Yom
278	67	48			150.00			36-48			No					Chong Bophea
279	68	40			100.00			30-40			No					Don't know

SECTION 3: Well Inventory																
S.N.		3.1 Well Depth (GL- m)			3.2 Casing Diameter (mm)			3.3 Screen Location (m)			3.4 Observation Pipe			3.5 Drilling Company Name		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
238	69	30			100.00			NA			No					Don't know
239	70	30			60.00			NA			No					Don't know
240	71	35			60.00			NA			No					Don't know
241	72	45	45		100.00	100.00		NA			No	No				Don't know Don't know
242	73	40			100.00			NA			No					Don't know
243	74	60	60		150.00	150.00		NA			No	No				Don't know Don't know
271	75	45			100.00			33-45			No					Don't know
24	1	30			49.00			NA			No					Don't know
56	2	27			100.00			20-27			No					Chea Phorn
78	3	60			60.00			NA			No					Bun Hok
79	4				60.00			NA			No					Don't know
80	5	45			60.00			NA			No					Don't know
81	6	45			60.00			NA			No					Don't know
82	7	53			100.00			NA			No					Don't know
83	8	50			100.00			NA			No					Don't know
84	9	24			60.00			NA			No					Don't know
85	10				60.00			NA			No					Don't know
86	11	20			40.00			NA			No					Don't know
87	12	20			60.00			NA			No					Don't know
88	13	40			60.00			NA			No					Don't know
89	14	30			60.00			NA			No					Don't know
90	15	30			60.00			NA			No					Don't know
91	16	30	38		42.00	42.00		NA	NA		No	No				Yin Yin
92	17	40			60.00			NA			No					Don't know
93	18	40	40		49.00	37.00		NA	NA		No	No				Penh Che Penh Chet
94	19	20			34.00			NA			No					Don't know
95	20	34			49.00			28-32			No					Ta Vin
96	21	45			34.00			NA			No					Don't know
97	22	32			34.00			NA			No					Don't know
98	23	24			40.00			NA			No					Don't know
99	24	24			40.00			NA			No					Don't know
100	25	24			40.00			NA			No					Don't know
101	26	24	24		49.00	49.00		NA			No	No				Don't know Don't know
102	27	20			49.00			NA			No					Don't know
103	28	20			49.00			NA			No					Ni
104	29	30			49.00			NA			No					Don't know
105	30	40			60.00			NA			No					Don't know
106	31	32			49.00			28-32			No					Don't know
108	32	60	30		100.00	42.00		NA	NA		No	No				Don't know Don't know
109	33	27			42.00			NA			No					Don't know
110	34	30			42.00			NA			No					Don't know
111	35	40			49.00			NA			No					Don't know
112	36	24			49.00			NA			No					Don't know
113	37	27	25		49.00	49.00		NA	NA		No	No				Uan Uan
114	38	30			49.00			NA			No					Penh Chet
115	39	30			49.00			NA			No					Don't know
116	40				49.00			NA			No	No				Don't know Don't know
117	41	40			49.00			34-40			No					Don't know
118	42	27			49.00			NA			No					Don't know
119	43							NA			No					Don't know
120	44	30			42.00			NA			No					Don't know
121	45	42	35		42.00	42.00		NA	NA		No	No				Don't know Don't know
122	46	30			49.00			NA			No					Don't know
123	47	24			60.00			NA			No					Don't know
124	48	27			100.00			NA			No					Don't know
125	49	30			49.00			NA			No					Don't know
126	50	35			42.00			NA			No					Penh Chet
127	51	32			60.00			20-32			No					Don't know
128	52	30			49.00			NA			No					Touch Toeun
129	53	27			49.00			NA			No					Don't know
130	54				42.00			NA			No					Don't know
131	55				60.00			NA			No					Don't know
132	56				49.00			NA			No					Don't know
133	57	32			49.00			NA			No					Don't know
134	58	45			49.00			41-45			No					Don't know
135	59	30			49.00			NA			No					Don't know

S.N.	SECTION 3: Well Inventory														
	3.1 Well Depth (GL- m)			3.2 Casing Diameter (mm)			3.3 Screen Location (m)			3.4 Observation Pipe			3.5 Drilling Company Name		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
136	60	26		49.00			NA			No			Don't know		
137	61	23		100.00			NA			No			Don't know		
138	62	40		49.00			NA			No			Don't know		
139	63	35		49.00			NA			No			Don't know		
140	64	40		100.00			NA			No			Don't know		
141	65	30		49.00			NA			No			Don't know		
142	66	30		49.00			NA			No			Don't know		
143	67	30		49.00			NA			No			Don't know		
144	68	30		49.00			NA			No			Don't know		
145	69	25		49.00			NA			No			Don't know		
146	70	27		42.00			NA			No			Don't know		
147	71			49.00			NA			No			Don't know		
148	72	28		42.00			NA			No			Don't know		
149	73	30		49.00			NA			No			Don't know		
150	74	27		49.00			NA			No			Don't know		
151	75	36		49.00			32-36			No			Don't know		
152	76	27		49.00			NA			No			Don't know		
153	77	25		49.00			NA			No			Don't know		
154	78						NA			No			Don't know		
155	79	35		49.00			NA			No			Don't know		
156	80	35		49.00			NA			No			Don't know		
157	81	27		42.00			NA			No			Don't know		
158	82	30		49.00			23-27			No			Don't know		
159	83	30		49.00			24-28			No			Don't know		
160	84	20		49.00			NA			No			Don't know		
161	85	36		49.00			NA			No			Don't know		
162	86	35		100.00			NA			No			Don't know		
167	87	26		49.00			NA			No			Don't know		
168	88	24		49.00			NA			No			Tiem Rem		
169	89	24		60.00			NA			No			Don't know		
170	90	40		49.00			NA			No			Don't know		
171	91	24		49.00			NA			No			Don't know		
172	92	28		49.00			NA			No			Yom		
173	93	28		42.00			NA			No			Don't know		
178	94	36		60.00			28-36			No			Yom		
179	95	26		49.00			NA			No			Yom		
182	96	45		100.00			NA			No			Don't know		
184	97	30		42.00			NA			No			Don't know		
217	98	28		42.00			NA			No			Don't know		
220	99	24		49.00			NA			No			Don't know		
221	100	24		49.00			NA			No			Don't know		
222	101	36		100.00			28-36			No			Yom		
229	102	24		60.00			16-24			No			Munry		
230	103	24		60.00			16-24			No			Tiem Rem		
231	104	30		42.00			NA			No			Don't know		
235	105	27		49.00			NA			No			Don't know		
236	106	27		42.00			NA			No			Don't know		
237	107	30		49.00			NA			No			Don't know		
244	108	30		100.00			NA			No			Don't know		
275	109	26		60.00			18-26			No			Yom		
276	110	26		60.00			18-26			No			Sovanrith		
277	111	24		60.00			16-28			No			Don't know		
280	112	27		42.00			NA			No			Don't know		
219	113	30		42.00			NA			No			Don't know		
219	113	30		42.00			NA			No			Don't know		
232	114	24		42.00			NA			No			Don't know		
233	115	27		42.00			NA			No			Don't know		
202	1	30		49.00			NA			No			Don't know		
203	2	25		42.00			NA			No			Don't know		
204	3	30		49.00			NA			No			Don't know		
205	4	27		49.00			NA			No			Don't know		
206	5						NA			No	No		Don't know	Don't know	
207	6	40		49.00			NA			No			Don't know		
208	7	30		42.00			NA			No			Don't know		
209	8	35		42.00			NA			No			Don't know		
210	9	25		42.00			NA			No			Don't know		
211	10	30		49.00			NA			No			Don't know		

S.N.	SECTION 3: Well Inventory															
	3.1 Well Depth (GL- m)				3.2 Casing Diameter (mm)			3.3 Screen Location (m)			3.4 Observation Pipe			3.5 Drilling Company Name		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	
212	11	27	27	27	60.00	60.00	60.00	NA			No	No	No	Don't know	Don't know	Don't know
213	12	25			42.00			NA			No			Don't know		
214	13	28			60.00			NA			No			Don't know		
215	14	25			60.00			NA			No			Don't know		
216	15	25			49.00			NA			No			Don't know		
245	16	30	30		49.00	49.00		NA			No	No		Don't know	Don't know	
246	17	40	40		49.00	49.00		NA			No	No		Don't know	Don't know	
247	18	30	23		100.00	49.00		NA			No	No		Don't know	Don't know	
248	19	30			100.00			NA			No			Don't know		
249	20	26			42.00			NA			No			Don't know		
250	21	30			49.00			NA			No			Don't know		
251	22	55			100.00			NA			No			Don't know		
252	23	40			100.00		36-40				No			Don't know		
253	24	40			100.00			NA			No			Don't know		
254	25	30			42.00			NA			No			Don't know		
255	26	27			42.00			NA			No			Don't know		
256	27	30	30		49.00	49.00		NA	NA		No	No		Don't know		
257	28				100.00			NA			No			Don't know		
258	29	27	27		49.00	49.00		NA	NA		No	No		Don't know		
259	30							NA			No			Don't know		
260	31	35			49.00			NA			No			Don't know		
261	32	25	25		42.00	42.00		NA	NA		No	No		Don't know		
262	33	30			60.00		24-30				No			Don't know		
263	34	27	27		60.00	42.00		NA	NA		No	No		Don't know	Don't know	
264	35	40			49.00		36-40				No			Don't know		
265	36	28	28		42.00	42.00		NA	NA		No	No		Don't know	Don't know	
266	37	35			49.00			NA			No			Don't know		
267	38	30	27	27	100.00	60.00	60.00	NA	NA	NA	No	No	No	Don't know	Don't know	Don't know
268	39	30			60.00			NA			No			Don't know		
269	40	30	30		49.00	49.00		NA	NA		No	No		Don't know	Don't know	
5	1	32	32	32	42.00	42.00	42.00	NA	NA	NA	No	No	No	Don't know	Don't know	Don't know
180	2	38	38		100.00	100.00		30-38	30-38		No	No		Phorn		
181	3	45			100.00			35-45			No			Mony		
186	4	65			100.00			50-60			No			Don't know		
187	5	63			200.00			50-63			No			Don't know		
188	6	30			49.00			20-30			No			Mony		
226	7	45	45		100.00	100.00		30-45	30-45		No	No		Houn	Houn	
227	8	25	25		49.00	49.00		18-25	18-25		No	No		Don't know	Don't know	
228	9	48	48		100.00	100.00		40-48	40-48		No	No		Yoo	Hoon	Yoo
270	10	45			200.00			33-45			No			Houn		
3	1	28			42.00			NA			No			Tien Rem		
4	2	30			49.00			NA			No			Ta Phann		
6	3	30			42.00		24-28				No			Don't know		
7	4	35			60.00			NA			No			Ta Seng		
8	5	40			49.00			NA			No			Ta Hong		
9	6	40			60.00			NA			No			Don't know		
10	7	40			60.00			NA			No			Don't know		
11	8	30	30		49.00	49.00		NA	NA		No	No		Don't know	Don't know	
12	9	23			60.00			NA			No			Don't know		
59	10	28			32.00			NA			No			Don't know		
60	11	20			42.00			NA			No			Don't know		
61	12	25			42.00			NA			No			Ta Hong		
62	13	20			32.00			NA			No			Don't know		
63	14	30			49.00			NA			No			Don't know		
64	15	24			60.00			NA			No			Don't know		
65	16	60			49.00			NA			No			Don't know		
66	17	40			49.00			NA			No			Don't know		
67	18	30			35.00			NA			No			Tien Rem		
68	19	30			42.00			NA			No			Houn		
69	20	28			49.00			NA			No			Lue		
70	21	30			49.00			NA			No			Don't know		
71	22	28			60.00			NA			No			Poy		
72	23	28			100.00			NA			No			Don't know		
73	24	34			60.00			NA			No			Tien Rem		

S.N.	SECTION 3: Well Inventory														
	3.1 Well Depth (GL- m)			3.2 Casing Diameter (mm)			3.3 Screen Location (m)			3.4 Observation Pipe			3.5 Drilling Company Name		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
74	25	32		60.00			NA			No			Ta Horm		
75	26	28		49.00			NA			No			Saom		
189	27	24		49.00			NA			No			Tien Rem		
190	28	24		32.00			NA			No			Don't know		
191	29	20		49.00			NA			No			Virak		
192	30	25		49.00			NA			No			Phoan		
193	31	28		49.00			NA			No			Don't know		
194	32	28		42.00			NA			No			Don't know		
223	33	44		100.00			32-44			No			Sokha		
234	34	40		42.00			36-40			No			Don't know		
273	35	45		100.00			33-45			No			Don't know		
274	36	45		100.00			37-45			No			Don't know		
1	37	32		42.00			NA			No			Don't know		
2	38	30		42.00			NA			No			Don't know		
57	39	45		100.00			33-45			No			Moun		
58	40	43		100.00			35-43			No			Houn		

SECTION 3: Well Inventory																								
S.N.	3.6						3.7						3.8						3.9					
	Water Meter			Pumping Amount DS (m3/day)			Pumping Amount WS (m3/day)			SWL DS (GL-m)			SWL WS (GL-m)			DWL DS (GL-m)			DWL WS (GL-m)					
	A	B	C	A	B	C	Method	A	B	C	Method	A	B	C	A	B	C	A	B	C				
13	1	No		3			EST	3			EST													
14	2	No		8	8		EST	8	8		EST													
15	3	No	No	60	60		EST	25	25		EST				2.00	2.00			8.60	4.9				
16	4	No	No	110	110		EST	40	40		EST				1.50	1.90			3.80	4.6				
17	5	No	No	25			EST	12			EST				2.10	2.60								
18	6	No	No	25	25		EST	12	12		EST				0.60	0.60			4.60	4.6				
19	7	No		12			EST	8			EST				1.70				5.10					
20	8	No		20			EST	10			EST				2.90				5.20					
21	9	No		30			EST	15			EST				2.00				4.20					
22	10	No	No	20	20		EST	12	12		EST				1.30	1.30			4.60	4.6				
23	11	No	No	33	33		EST	22	22		EST				1.60	1.60			7.50	7.5				
25	12	No		14			EST	9			EST				2.20									
26	13	No	No	4	4		EST	2	2		EST				3.1	3.1			7.2	7.2				
27	14	No	No	50	50		EST	30	30		EST				2.00	2.00			4.80	4.6				
28	15	Yes	Yes	68	68		EST	44	43		EST				3.2	3.2			8.2	8.2				
29	16	No		50			EST	30			EST				1.40	1.40			6.40	6.4				
30	17	No	No	180	108	5	EST	100	72	5	EST				1.60	1.60	1.6		3.80					
31	18	No	No	50	50		EST	30	30		EST				1.50	1.50			4.20	4.2				
32	19	No	No	40	40	20	EST	30	30	10	EST				1.70	1.70	1.7		2.80	2.8				
33	20	Yes	Yes	40	40		EST	30	30		EST				1.80	1.72			5.20	5.5				
34	21	No	No	40	40		EST	30	30		EST				1.62	1.62			3.45	3.45				
35	22	Yes		60			EST	50			EST				1.80				6.00					
36	23	Yes	Yes	150	150		EST	100	100		EST				1.80	2.10			6.80	7.2				
37	24	No		5			EST	3			EST													
38	25	No		24			EST	16			EST				1.60				6.80					
39	26	No		12			EST	10			EST				2.80				7.20					
40	27	No		20			EST	12			EST				1.80				7.50					
41	28	No		20			EST	14			EST				1.80				6.50					
42	29	No		14			EST	12			EST				0.00									
43	30	No		30			EST	15			EST				2.50				5.80					
44	31	No		90			EST	50			EST				1.40				8.90					
45	32	No		8			EST	4			EST				6.20				1.80					
46	33	No		8			EST	6			EST				0.00									
47	34	No		60			EST	40			EST				0.00									
48	35	No		18			EST	10			EST				0.00									
49	36	No		28			EST	28			EST				1.40									
50	37	No	No	28	6		EST	28	3		EST				2.65	2.65				0				
51	38	No		54			EST	45			EST				1.60				7.30					
52	39	No		5			EST	3			EST				1.40									
53	40	No		21			EST	21			EST				1.43				3.62					
54	41	No		27	18		EST	27	9		EST				0.00									
55	42	No		25			EST	21			EST				2.10									
76	43	No		50			EST	30			EST				0.00									
77	44	Yes	Yes	50	50		EST	40	40		EST				0.00									
107	45	No		4			EST	2			EST				0.00									
163	46	No		8			EST	5			EST				1.60				7.20					
164	47	No		10			EST	6			EST				1.70				7.40					
165	48	No		25			EST	15			EST				1.80				7.50					
166	49	No		5			EST	3			EST				1.50				7.00					
174	50	No		20			EST	12			EST				1.90				7.80					
175	51	No		2			EST	1			EST				1.50				6.80					
176	52	No		8			EST	4			EST				1.60				6.30					
177	53	No		3			EST	2			EST				1.50				6.50					
183	54	No		10			EST	5			EST				2.10									
185	55	No		50			EST	20			EST				1.60				6.80					
195	56	No		12			EST	8			EST													
196	57	No		30			EST	30			EST				1.70				6.40					
197	58	Yes		100			EST	50			EST				1.50				6.60					
198	59	No	No	30	50	50	EST	40	40	40	EST				1.50	1.50	1.5		7.10	7.1				
199	60	No		80			EST	60			EST				2.00				6.40					
200	61	No		100			EST	80			EST				1.80				8.20					
201	62	No		20	20		EST	10	10		EST				2.10	2.10			8.20	8.2				
218	63	No		8			EST	6			EST													
272	64	No		12			EST	8			EST				1.60				7.30					
224	65	No		50			EST	20			EST				1.70				7.40					
225	66	No		5			EST	5			EST				1.70				6.80					
278	67	No		80			EST	60			EST				1.60				7.40					
279	68	No		18			EST	15			EST													

The Preparatory Study on The Siem Reap Water Supply Expansion Project

SECTION 3: Well Inventory																	
S.N.	3.6 Water Meter			3.7 Pumping Amount DS (m3/day)				3.8 SWL DS (GL-m)				3.9 DWL DS (GL-m)					
	A	B	C	A	B	C	Method	A	B	C	Method	A	B	C	A	B	C
238	69	No		9			EST	6			EST	1.65					6.20
239	70	No		9			EST	6			EST	1.40					6.80
240	71	No		6			EST	3			EST	1.50					6.60
241	72	No	No	16	16		EST	12	12		EST	1.80	1.80				7.00
242	73	No		15			EST	10			EST	1.60					6.80
243	74	Yes	Yes	15	15		EST	10	10		EST	2.00	2.00				6.50
271	75	No		20			EST	10			EST	1.50					6.5
24	1	No		4.5			EST	4.5			EST						
56	2	No		6			EST	6			EST	1.60					5.80
78	3	No		4			EST	2			EST	1.50					2.70
79	4	No		3			EST	3			EST	1.80					6.90
80	5	No		6			EST	3			EST	1.50					2.70
81	6	No		4			EST	2			EST						
82	7	No		6			EST	4			EST						
83	8	No		6			EST	4			EST	1.60					2.60
84	9	No		3			EST	2			EST						
85	10	No		5			EST	5			EST						
86	11	No		4			EST	2.5			EST						
87	12	No		3			EST	2			EST	1.60					6.00
88	13	No		5			EST	3			EST						
89	14	No		8			EST	6			EST						
90	15	No		8			EST	4			EST						
91	16	No	No	3	3		EST	2	2		EST	1.80	1.80				6.20
92	17	No		4			EST	2			EST						
93	18	No	No	8	6		EST	4	3		EST						
94	19	No		5			EST	3			EST						
95	20	No		4			EST	3			EST						
96	21	No		3			EST	2			EST						
97	22	No		3			EST	3			EST						
98	23	No		7			EST	7			EST						
99	24	No		8			EST	5			EST						
100	25	No		5			EST	5			EST						
101	26	No		7.5	2		EST	6	2		EST						
102	27	No		2.5			EST	2.5			EST						
103	28	No		4.5			EST	3			EST						
104	29	No		9			EST	9			EST						
105	30	No		4			EST	4			EST						
106	31	No		3			EST	2			EST						
108	32	No	No	5	3		EST	5	3		EST	1.35					7.30
109	33	No		4			EST	2			EST						
110	34	No		6			EST	3			EST						
111	35	No		12			EST	12			EST						
112	36	No		6			EST	4			EST						
113	37	No		5.5	5.5		EST	5.5	5.5		EST						
114	38	No		8			EST	8			EST						
115	39	No		6			EST	6			EST						
116	40	No		2	2		EST	2	2		EST						
117	41	No		3			EST	3			EST						
118	42	No		6			EST	6			EST						
119	43	Yes		3			EST	3			EST						
120	44	No		24			EST	24			EST						
121	45	No	No	3	1.7		EST	3	1.7		EST						
122	46	No		6			EST	6			EST						
123	47	No		3			EST	3			EST						
124	48	No		5			EST	5			EST	1.40					1.82
125	49	No		3			EST	3			EST						
126	50	No		4			EST	4			EST						
127	51	No		8			EST	8			EST						
128	52	No		3			EST	2			EST						
129	53	No		5			EST	5			EST						
130	54	Yes		2.5			EST	2.5			EST						
131	55	No		7			EST	7			EST						
132	56	No		6			EST	6			EST						
133	57	No		5			EST	5			EST						
134	58	No		5			EST	5			EST						
135	59	No		3			EST	3			EST						

SECTION 3: Well Inventory																				
S.N.	3.6 Water Meter			3.7 Pumping Amount DS (m3/day)				3.8 SWL DS (GL-m)			3.9 SWL WS (GL-m)			3.9 DWL DS (GL-m)			3.9 DWL WS (GL-m)			
	A	B	C	A	B	C	Method	A	B	C	A	B	C	A	B	C	A	B	C	
136	60	No		3			EST	3												
137	61	No		3			EST	3												
138	62	No		2			EST	1.6						2.10						
139	63	No		2			EST	2												
140	64	No		6			EST	6												
141	65	No		6			EST	4												
142	66	No		6			EST	5												
143	67	No		5			EST	5												
144	68	No		5			EST	5												
145	69	No		3			EST	3												
146	70	No		3			EST	1.5												
147	71	No		4.5			EST	4.5												
148	72	No		3			EST	3												
149	73	No		6			EST	6												
150	74	Yes		2			EST	2												
151	75	No		18			EST	18												
152	76	No		4			EST	4												
153	77	No		3.2			EST	3.2												
154	78	No		5			EST	5												
155	79	No		6			EST	2												
156	80	No		7			EST	7												
157	81	No		3			EST	3												
158	82	No		4			EST	4												
159	83	No		6			EST	6												
160	84	No		6			EST	4												
161	85	No		3			EST	3												
162	86	No		2			EST	1												
167	87	No		5			EST	3						1.80						7.20
168	88	No		5			EST	3						1.90						6.80
169	89	No		4			EST	3						2.10						8.40
170	90	No		8			EST	6												
171	91	No		6			EST	4						1.90						7.10
172	92	No		6			EST	4						1.60						6.80
173	93	No		3			EST	3												
178	94	No		4			EST	3						1.80						7.40
179	95	No		5			EST	3						1.60						6.80
182	96	No		3			EST	1.5						2.20						2.45
184	97	No		4			EST	4												
217	98	No		4			EST	2												
220	99	No		5			EST	3						1.60						7.20
221	100	No		5			EST	3						1.70						6.80
222	101	No		10			EST	6						1.50						6.80
229	102	No		5			EST	3						1.60						6.90
230	103	No		8			EST	4						1.60						6.80
231	104	No		6			EST	3												
235	105	No		3			EST	3												
236	106	No		3			EST	3												
237	107	No		15			EST	15												
244	108	No		18			EST	18												
275	109	No		10			EST	5						1.40						2.70
276	110	No		10			EST	3						1.60						6.50
277	111	No		8			EST	5						1.60						6.80
280	112	No		9			EST	9												
219	113	No		4			EST	2												
232	114	No		6			EST	4												
233	115	No		4			EST	2												
202	1	No		6			EST	6												
203	2	No		8			EST	8												
204	3	No		10			EST	10												
205	4	No		6			EST	6												
206	5	No	No	8.5	2		EST	8.5	2											
207	6	No		3.5			EST	3.5												
208	7	No		10			EST	10												
209	8	No		6			EST	4												
210	9	No		6			EST	6												
211	10	No		5			EST	5												

The Preparatory Study on The Siem Reap Water Supply Expansion Project

SECTION 3: Well Inventory																							
S.N.	3.6 Water Meter			3.7 Pumping Amount DS (m3/day)				3.7 Pumping Amount WS (m3/day)				3.8 SWL DS (GL-m)			3.8 SWL WS (GL-m)			3.9 DWL DS (GL-m)			3.9 DWL WS (GL-m)		
	A	B	C	A	B	C	Method	A	B	C	Method	A	B	C	A	B	C	A	B	C	A	B	C
212	11	No	No	8	8	4	EST	4	4	2	EST												
213	12	No	No	12			EST	12			EST												
214	13	No	No	10			EST	10			EST												
215	14	No	No	12			EST	12			EST												
216	15	No	No	6			EST	6			EST												
245	16	No	No	8	4		EST	4	2		EST												
246	17	No	No	12	4		EST	12	4		EST												
247	18	No	No	9			EST	5			EST	1.90										2.50	
248	19	No	No	3			EST	3			EST	1.80											3.55
249	20	No	No	4			EST	2			EST												
250	21	No	No	6			EST	4			EST												
251	22	No	No	8			EST	4			EST	0.85											1.23
252	23	No	No	18			EST	18			EST	1.30											2.30
253	24	No	No	6			EST	6			EST												
254	25	No	No	7.5			EST	7.5			EST												
255	26	No	No	4			EST	4			EST												
256	27	No	No	4			EST	4			EST												
257	28	No	No	42			EST	42			EST	1.64											7.25
258	29	No	No	20			EST	15			EST												
259	30	No	No	12			EST	8			EST												
260	31	No	No	6			EST	6			EST												
261	32	No	No	5	2		EST	5	2		EST												
262	33	No	No	12			EST	12			EST												
263	34	No	No	5	3		EST	5	1		EST												
264	35	No	No	3.5			EST	3.5			EST												
265	36	Yes	Yes	3	2		EST	3	2		EST												
266	37	No	No	5			EST	5			EST												
267	38	No	No	4	1	1	EST	4	1	1	EST												
268	39	No	No	7			EST	7			EST												
269	40	No	No	30	4.5		EST	30	4.5		EST												
5	1	No	No	15	10	10	EST	12	8	8	EST												
180	2	No	No	80	80		EST	30	30		EST	1.80	1.70									6.80	7.2
181	3	No	No	15			EST	10			EST	1.60											6.80
186	4	No	No	40			EST	15			EST	1.70											7.20
187	5	No	No	150			EST	80			EST	2.30											
188	6	No	No	10			EST	3			EST												
226	7	No	No	20	20		EST	10	10		EST	1.60	1.50										7.20
227	8	No	No	70	70		EST	30	30		EST	1.70	1.60										7.00
228	9	No	No	100	100		EST	40	40		EST	1.60	1.50										7.50
270	10	No	No	64			EST	34			EST	1.50											7.50
3	1	No	No	3			EST	3			EST												
4	2	No	No	12			EST	12			EST												
6	3	No	No	20			EST	20			EST												
7	4	No	No	20			EST	30			EST	2.10											7.20
8	5	No	No	10			EST	10			EST	1.80											7.20
9	6	No	No	6			EST	8			EST	1.60											6.50
10	7	No	No	8			EST	12			EST	2.20											7.00
11	8	No	No	6	6		EST	11	11		EST												
12	9	No	No	8			EST	12			EST												
59	10	No	No	6			EST	6			EST	1.40											6.80
60	11	No	No	6			EST	6			EST	1.70											6.90
61	12	No	No	5			EST	5			EST												
62	13	No	No	7			EST	7			EST												
63	14	No	No	3			EST	6			EST	1.40											7.60
64	15	No	No	3			EST	6			EST	1.90											7.50
65	16	No	No	2			EST	4.5			EST	2.10											7.30
66	17	No	No	4.5			EST	6			EST												
67	18	No	No	9			EST	9			EST												
68	19	No	No	8			EST	8			EST												
69	20	No	No	7			EST	7			EST												
70	21	No	No	5			EST	5			EST												
71	22	No	No	4			EST	6			EST	1.80											6.80
72	23	No	No	25			EST	20			EST	1.80											7.40
73	24	No	No	8			EST	8			EST	2.10											7.80

SECTION 3: Well Inventory																				
S.N.	3.6			3.7				3.8			3.9									
	Water Meter			Pumping Amount DS (m3/day)				SWL DS (GL-m)			SWL WS (GL-m)			DWL DS (GL-m)			DWL WS (GL-m)			
	A	B	C	A	B	C	Method	A	B	C	Method	A	B	C	A	B	C	A	B	C
74	25	No		8			EST	8			EST	1.70						8.20		
75	26	No		6			EST	6			EST	1.80						7.20		
189	27	No		8			EST	8			EST									
190	28	No		8			EST	8			EST									
191	29	No		8			EST	8			EST									
192	30	No		8			EST	8			EST									
193	31	No		10			EST	10			EST									
194	32	No		10			EST	10			EST									
223	33	No		13			EST	8			EST	1.80						7.70		
234	34	No		6			EST	4			EST									
273	35	No		10			EST	10			EST	1.50						7.20		
274	36	No		30			EST	15			EST	1.50						7.50		
1	37	No		3			EST	3			EST									
2	38	No		4			EST	4			EST									
57	39	No		3			EST	3			EST	1.70						6.40		
58	40	No		4			EST	4			EST	1.90						7.40		

S.N.	SECTION 3: Well Inventory															
	3.10			3.11				3.12	3.13	3.14	3.15		3.16	3.17		
	Operation Hour DS (h/day)			Purpose				Pump Operation	Ease of Switching	Power Supply	Power Consumption		Initial Installation Cost	Total OM Cost		
	A	B	C	A	B	C	pen. suppl	Pool	Garden	Other		Electricity (kWh)	Fuel (L)	(US\$)	(US\$)	
13	1	0.30		0.30	0.00				Yes		Manual	Easy	Both	11	NA NAP	160
14	2	2.00	2.00	2.00	2.00		Yes	Yes	Yes		Automatic	Easy	Commercial	NA	NA NAP	250
15	3	4.00	4.00	1.50	1.50		Yes	Yes	Yes		Automatic	Difficult	Both	2800	200 10000 - 50000	820
16	4	6.00	6.00	3.30	3.30		Yes	Yes	Yes		Automatic	Difficult	Both	NA	40 NAP	440
17	5	2.30	1.20	0.00	0.00		Yes	Yes	Yes		Automatic	Difficult	Both	NA	NA 1000 - 5000	728
18	6	2.30	2.30	1.30	1.30		Yes	Yes	Yes		Automatic	Difficult	Both	NA	NA 10000 - 50000	180
19	7	1.30		1.00			Yes				Automatic	Easy	Both	1000	NA 10000 - 50000	300
20	8	2.50		1.50			Yes	Yes	Yes		Automatic	Difficult	Both	NA	NA NAP	171
21	9	4.50		2.50			Yes	Yes	Yes		Automatic	Easy	Both	700	200 10000 - 50000	330
22	10	4.00	4.00	2.00	2.00		Yes	Yes	Yes		Automatic	Difficult	Both	300	200 10000 - 50000	220
23	11	2.00	2.00	1.20	1.20		Yes	Yes			Automatic	Difficult	Both	NA	NA NAP	673
25	12	3.00		2.00			Yes				Automatic	Easy	Both	203	30 5000 - 10000	664
26	13	0.30	0.30	0.15	0.15		Yes	Yes	Yes		Automatic	Easy	Both	NA	NA 10000 - 50000	1500
27	14	8.00	8.00	6.00	6.00		Yes	Yes	Yes		Automatic	Difficult	Both	1000	NA 10000 - 50000	420
28	15	6.40	6.40	4.00	4.00		Yes				Automatic	Easy	Both	1508	200 50000 - 100000	1763
29	16	7.00		4.00			Yes	Yes	Yes		Automatic	Easy	Both	1000	200 10000 - 50000	380
30	17	7.30	4.30	2.00	4.00	3.00	2	Yes	Yes	Yes	Both	Easy	Both	NA	NA 10000 - 50000	700
31	18	5.50	5.50	4.00	4.00		Yes	Yes	Yes		Automatic	Moderate	Both	NA	NA 10000 - 50000	1580
32	19	5.00	5.00	2.50	4.00	4.00	1.15	Yes	Yes	Yes	Automatic	Easy	Both	NA	NA 10000 - 50000	650
33	20	5.00	5.00	3.50	3.50		Yes	Yes	Yes		Automatic	Easy	Both	1234	NA 50000 - 100000	900
34	21	5.00	5.00	4.00	4.00		Yes	Yes	Yes	Yes	Automatic	Difficult	Both	1000	NA 10000 - 50000	1300
35	22	5.00		4.15			Yes	Yes	Yes		Automatic	Difficult	Both	NA	30 NAP	280
36	23	6.00	6.00	4.00	4.00		Yes	Yes	Yes		Automatic	Easy	Both	4000	200 100000 -	950
37	24	1.30		1.00			Yes	Yes	Yes		Automatic	Easy	Commercial	NA	NA NAP	110
38	25	3.00		2.00			Yes	Yes	Yes		Automatic	Easy	Both	1300	150 10000 - 50000	350
39	26	3.00		2.30			Yes		Yes		Automatic	Easy	Both	800	100 5000 - 10000	180
40	27	3.30		2.00			Yes				Automatic	Moderate	Both	12000	NA 10000 - 50000	400
41	28	3.00		2.00			Yes				Automatic	Difficult	Both	800	100 10000 - 50000	280
42	29	1.50		1.30			Yes		Yes		Automatic	Difficult	Both	800	30 NAP	350
43	30	3.00		1.30			Yes				Automatic	Moderate	Both	1200	100 5000 - 10000	200
44	31	6.00		3.30			Yes				Automatic	Difficult	Both	2500	200 50000 - 100000	756
45	32	1.00		0.30			Yes	Yes	Yes		Automatic	Easy	Both	500	50 10000 - 50000	154
46	33	2.00		1.30			Yes		Yes		Automatic	Moderate	Both	500	100 1000 - 5000	200
47	34	8.00		5.00			Yes	Yes	Yes		Automatic	Easy	Both	NA	NA 10000 - 50000	240
48	35	2.00		1.15			Yes		Yes		Automatic	Moderate	Both	125	120 NAP	193
49	36	1.30		1.30			Yes				Automatic	Easy	Both	67.5	36 NAP	205
50	37	4.00	1.00	4.00	0.30		Yes				Both	Difficult	Both	330	NA NAP	327
51	38	3.50		3.00			Yes				Automatic	Easy	Both	270	NA 5000 - 10000	404
52	39	1.20		0.50			Yes		Yes		Manual	Easy	Both	22	NA NAP	100
53	40	2.00		2.00			Yes				Automatic	Easy	Both	99	10 5000 - 10000	237
54	41	3.00	2.00	3.00	1.00		Yes		Yes		Automatic	Easy	Both	198	NA NAP	340
55	42	2.30		2.00			Yes				Automatic	Easy	Both	101	30 10000 - 50000	332
76	43	5.00		3.00			Yes				Automatic	Easy	Both	123.75	NA NAP	246
77	44	5.00	5.00	4.00	4.00		Yes				Automatic	Easy	Both	900	NA NAP	Don't know
107	45	1.00		0.30					Yes		Manual	Easy	Commercial	22	NA 5000 - 10000	174
163	46	1.00		0.45			Yes	Yes	Yes		Automatic	Difficult	Commercial	100	NA 10000 - 50000	140
164	47	1.20		0.50			Yes		Yes		Automatic	Difficult	Commercial	200	NA 10000 - 50000	280
165	48	1.45		1.00			Yes	Yes			Automatic	Moderate	Both	250	NA 10000 - 50000	380
166	49	1.00		0.30			Yes		Yes		Automatic	Easy	Commercial	100	NA 5000 - 10000	280
174	50	3.00		1.40			Yes		Yes		Automatic	Moderate	Commercial	1000	NA 1000 - 5000	150
175	51	0.20		0.10			Yes		Yes		Automatic	Easy	Commercial	50	NA 5000 - 10000	100
176	52	1.20		0.45			Yes		Yes		Automatic	Moderate	Commercial	50	NA 5000 - 10000	130
177	53	0.30		0.20			Yes				Automatic	Moderate	Commercial	50	NA 5000 - 10000	120
183	54	1.00		0.30					Yes		Automatic	Easy	Both	NA	NA NAP	183
185	55	5.00		2.00			Yes	Yes	Yes		Automatic	Easy	Commercial	2000	NA 10000 - 50000	480
195	56	1.00		0.50			Yes	Yes	Yes		Automatic	Easy	Both	48	NA NAP	170
196	57	2.30		2.30			Yes	Yes	Yes		Automatic	Easy	Commercial	1500	NA 10000 - 50000	500
197	58	6.00		3.00			Yes	Yes	Yes		Automatic	Easy	Both	500	NA 50000 - 100000	510
198	59	3.20	3.20	2.40	2.40	2.4	Yes	Yes	Yes		Automatic	Easy	Both	2000	200 50000 - 100000	700
199	60	5.00		4.00			Yes	Yes	Yes		Automatic	Easy	Both	3000	NA NAP	980
200	61	6.30		5.00			Yes				Automatic	Difficult	Both	1000	NA 10000 - 50000	590
201	62	1.20	1.20	0.40	0.40		Yes				Automatic	Difficult	Both	NA	300 10000 - 50000	400
218	63	1.20		1.00			Yes				Automatic	Easy	Commercial	23	NA 1000 - 5000	100
272	64	1.50		1.20			Yes	Yes	Yes		Automatic	Difficult	Commercial	100	NA 1000 - 5000	110
224	65	3.00		1.00			Yes	Yes	Yes		Automatic	Difficult	Both	1300	50 50000 - 100000	380
225	66	1.00		1.00			Yes	Yes	Yes		Automatic	Moderate	Commercial	100	NA 1000 - 5000	160
278	67	5.20		4.00			Yes	Yes	Yes		Automatic	Moderate	Generator	NA	NA 10000 - 50000	260
279	68	1.20		1.00			Yes	Yes	Yes		Automatic	Moderate	Both	200	80 10000 - 50000	180

S.N.	SECTION 3: Well Inventory																
	3.10						3.11				3.12	3.13	3.14	3.15		3.16	3.17
	Operation Hour DS (h/day)			Operation Hour WS (h/day)			Pen. suppl	Pool	Garden	Other	Pump Operation	Ease of Switching	Power Supply	Electricity (KWh)	Fuel (L)	Initial Instalation Cost (US\$)	Total OM Cost (US\$)
	A	B	C	A	B	C											
238	69	1.30		1.00			Yes			Automatic	Easy	Commercial	67.5		NA NAP	Don't know	
239	70	1.30		1.00			Yes			Manual	Easy	Commercial	82.5		NA NAP	Don't know	
240	71	1.00		0.30			Yes			Manual	Easy	Both	82.5		NA NAP	140	
241	72	2.00	2.00	1.30	1.30		Yes	Yes	Yes	Automatic	Easy	Both	225		NA NAP	240	
242	73	2.00		1.20			Yes			Automatic	Easy	Both	195.75		NA NAP	Don't know	
243	74	1.30	1.30	1.00	1.00		Yes			Automatic	Easy	Both	1350		NA NAP	370	
271	75	3.00		1.30			Yes	Yes		Automatic	Moderate	Commercial	400		NA 10000 - 50000	160	
24	1	1.00		1.00			Yes			Automatic	Difficult	Both	22		NA - 1000	54	
56	2	1.50		1.50			Yes			Manual	Easy	Commercial	40		NA 1000 - 5000	33	
78	3	1.00		0.30			Yes	Yes	Yes	Automatic	Moderate	Commercial	NA		NA 1000 - 5000	72	
79	4	0.50		0.50			Yes			Automatic	Moderate	Commercial	200		NA 1000 - 5000	24	
80	5	1.00		0.40			Yes			Automatic	Moderate	Commercial	NA		NA NAP	39	
81	6	1.00		0.30			Yes			Automatic	Moderate	Commercial	NA		NA 1000 - 5000	36	
82	7	1.00		0.40			Yes			Automatic	Easy	Commercial	NA		NA - 1000	45	
83	8	1.00		0.40			Yes			Automatic	Easy	Commercial	NA		NA 1000 - 5000	60	
84	9	0.40		0.30			Yes			Manual	Easy	Commercial	150		6 1000 - 5000	48	
85	10	1.00		1.00			Yes			Manual	Moderate	Both	100		NA - 1000	51	
86	11	0.50		0.30			Yes			Manual	Easy	Commercial	75		NA - 1000	30	
87	12	0.45		0.30			Yes			Manual	Easy	Commercial	60		NA 1000 - 5000	48	
88	13	1.00		0.30			Yes	Yes		Automatic	Easy	Commercial	80		NA 1000 - 5000	60	
89	14	1.20		1.00			Yes			Automatic	Easy	Commercial	150		NA 1000 - 5000	51	
90	15	2.00		1.00			Yes			Automatic	Easy	Commercial	100		NA 1000 - 5000	54	
91	16	1.20	1.20	0.50	0.50		Yes	Yes		Automatic	Easy	Commercial	100		NA - 1000	42	
92	17	1.00		0.30			Yes			Automatic	Easy	Commercial	70		NA 1000 - 5000	66	
93	18	1.20	1.00	0.50	0.30		Yes			Both	Easy	Commercial	56		NA 1000 - 5000	75	
94	19	2.00		1.20			Yes			Automatic	Easy	Commercial	22		NA - 1000	54	
95	20	1.00		0.40			Yes			Automatic	Easy	Commercial	34		NA - 1000	45	
96	21	0.40		0.30			Yes	Yes		Automatic	Easy	Commercial	22		NA 1000 - 5000	105	
97	22	0.20		0.20			Yes			Automatic	Easy	Both	49		NA 1000 - 5000	90	
98	23	0.20		0.20			Yes			Automatic	Easy	Commercial	45		NA NAP	60	
99	24	1.40		1.00			Yes			Automatic	Easy	Commercial	22		NA - 1000	45	
100	25	1.00		1.00			Yes			Automatic	Easy	Commercial	22		NA 1000 - 5000	63	
101	26	1.50	0.30	1.15	0.30		Yes			Automatic	Easy	Commercial	56		NA - 1000	102	
102	27	0.30		0.30			Yes			Manual	Easy	Commercial	12		NA - 1000	45	
103	28	1.00		0.50			Yes			Automatic	Easy	Commercial	12		NA - 1000	30	
104	29	1.30		1.30			Yes			Automatic	Easy	Commercial	67		NA 1000 - 5000	96	
105	30	1.00		1.00			Yes			Automatic	Easy	Commercial	34		NA 1000 - 5000	36	
106	31	0.40		0.30			Yes	Yes		Manual	Easy	Both	22		NA - 1000	90	
108	32	0.20	1.00	0.20	1.00		Yes	Yes		Automatic	Easy	Commercial	49		NA NAP	48	
109	33	1.00		0.30			Yes			Automatic	Easy	Commercial	45		NA 1000 - 5000	54	
110	34	1.00		0.30			Yes			Manual	Easy	Commercial	99		NA NAP	42	
111	35	3.00		3.00			Yes			Automatic	Easy	Commercial	67		NA - 1000	81	
112	36	1.30		1.00			Yes			Automatic	Easy	Commercial	22		NA 1000 - 5000	147	
113	37	1.00	1.00	1.00	1.00		Yes			Automatic	Easy	Commercial	22		NA 1000 - 5000	54	
114	38	1.20		1.20			Yes			Automatic	Easy	Commercial	33		NA NAP	90	
115	39	1.00		1.00			Yes			Automatic	Easy	Commercial	22		NA - 1000	42	
116	40	0.30	0.30	0.30	0.30		Yes			Automatic	Easy	Commercial	17		NA NAP	30	
117	41	0.30		0.30			Yes			Manual	Difficult	Commercial	6		NA - 1000	30	
118	42	0.50		0.50			Yes			Automatic	Easy	Both	22		NA NAP	57	
119	43	1.00		1.00			Yes			Automatic	Easy	Commercial	22		NA NAP	45	
120	44	4.00		4.00			Yes			Automatic	Easy	Commercial	132		NA 1000 - 5000	33	
121	45	0.30	0.30	0.30	0.30		Yes			Automatic	Easy	Both	17		NA 1000 - 5000	63	
122	46	1.00		1.00			Yes			Automatic	Easy	Commercial	22		NA NAP	60	
123	47	0.40		0.40			Yes			Automatic	Moderate	Commercial	11		NA NAP	45	
124	48	1.00		1.00			Yes			Automatic	Easy	Commercial	33		NA - 1000	60	
125	49	0.30		0.30			Yes			Automatic	Easy	Commercial	11		NA NAP	30	
126	50	0.50		0.50			Yes			Automatic	Easy	Commercial	11		NA - 1000	60	
127	51	1.20		1.20			Yes			Automatic	Easy	Commercial	66		NA 10000 - 50000	96	
128	52	0.30		0.20			Yes	Yes		Manual	Easy	Commercial	11		NA NAP	72	
129	53	0.40		0.40			Yes			Automatic	Easy	Commercial	22		NA NAP	57	
130	54	0.30		0.30			Yes			Automatic	Easy	Commercial	11		NA NAP	51	
131	55	1.30		1.30			Yes			Automatic	Difficult	Both	45		NA NAP	111	
132	56	1.00		1.00			Yes			Automatic	Easy	Commercial	22		NA NAP	63	
133	57	0.40		0.40			Yes			Automatic	Difficult	Commercial	22		NA - 1000	63	
134	58	0.40		0.40			Yes			Automatic	Easy	Commercial	15		NA 1000 - 5000	87	
135	59	0.30		0.30			Yes			Automatic	Easy	Commercial	11		NA - 1000	24	

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S.N.	SECTION 3: Well Inventory															
	3.10			3.11			3.12	3.13	3.14	3.15		3.16	3.17			
	Operation Hour DS (h/day)			Operation Hour WS (h/day)			Purpose	Pump Operation	Ease of Switching	Power Supply	Electricity (kWh)	Fuel (L)	Initial Installation Cost (US\$)	Total OM Cost (US\$)		
	A	B	C	A	B	C	pen. suppl	Pool	Garden	Other						
136	60	0.30		0.30					Yes		Manual	Easy	Commercial	12	NA NAP	78
137	61	0.30		0.30					Yes		Manual	Easy	Both	11	NA 1000 - 5000	105
138	62	0.30		0.20					Yes		Manual	Easy	Commercial	11	NA - 1000	60
139	63	0.20		0.20			Yes				Automatic	Easy	Commercial	8	NA - 1000	30
140	64	1.00		1.00			Yes				Automatic	Easy	Both	22	NA 1000 - 5000	75
141	65	1.00		0.40			Yes				Automatic	Difficult	Commercial	22	NA 1000 - 5000	60
142	66	1.00		1.00			Yes				Automatic	Easy	Commercial	30	NA 1000 - 5000	66
143	67	1.00		1.00			Yes				Automatic	Easy	Both	22	NA 1000 - 5000	81
144	68	1.00		1.00			Yes				Automatic	Easy	Commercial	NA	NA 1000 - 5000	69
145	69	0.30		0.30			Yes				Automatic	Easy	Commercial	11	NA 1000 - 5000	36
146	70	0.40		2.00				Yes			Automatic	Easy	Commercial	11	NA NAP	78
147	71	1.00		1.00			Yes				Automatic	Easy	Commercial	15	NA NAP	63
148	72	0.40		0.40				Yes			Automatic	Easy	Commercial	15	NA - 1000	81
149	73	1.30		1.30			Yes				Automatic	Easy	Commercial	34	NA NAP	63
150	74	0.30		0.30			Yes				Manual	Easy	Both	17	NA NAP	60
151	75	3.00		3.00			Yes				Automatic	Easy	Commercial	99	NA 1000 - 5000	45
152	76	1.00		1.00			Yes				Automatic	Easy	Both	22	NA 1000 - 5000	111
153	77	1.00		1.00				Yes			Manual	Easy	Commercial	11	NA 1000 - 5000	81
154	78	1.10		1.10			Yes				Automatic	Easy	Commercial	19	NA NAP	48
155	79	1.00		0.20			Yes				Automatic	Moderate	Commercial	8	NA NAP	78
156	80	1.20		1.20			Yes				Automatic	Easy	Commercial	33	NA NAP	81
157	81	0.30		0.30			Yes				Manual	Easy	Commercial	17	NA - 1000	60
158	82	0.40		0.40			Yes				Automatic	Easy	Commercial	15	NA 1000 - 5000	84
159	83	1.00		1.00			Yes				Automatic	Easy	Commercial	23	NA 1000 - 5000	75
160	84	1.00		0.40			Yes				Automatic	Easy	Both	23	NA NAP	39
161	85	0.40		0.40			Yes				Manual	Easy	Commercial	15	NA 1000 - 5000	36
162	86	0.30		0.15				Yes			Manual	Easy	Commercial	5	NA 1000 - 5000	150
167	87	1.00		0.40			Yes				Automatic	Difficult	Commercial	1200	NA 1000 - 5000	48
168	88	1.00		0.40			Yes				Automatic	Difficult	Commercial	60	NA - 1000	57
169	89	1.00		0.45			Yes				Automatic	Difficult	Commercial	100	NA 1000 - 5000	24
170	90	1.20		1.00			Yes				Automatic	Difficult	Commercial	70	NA - 1000	75
171	91	1.30		1.00			Yes				Automatic	Moderate	Commercial	50	NA - 1000	51
172	92	1.00		0.40			Yes				Automatic	Difficult	Commercial	100	NA 1000 - 5000	48
173	93	1.00		1.00			Yes				Automatic	Difficult	Commercial	50	NA - 1000	18
178	94	1.00		0.50			Yes				Automatic	Moderate	Commercial	30	NA 1000 - 5000	54
179	95	1.15		0.50			Yes				Automatic	Difficult	Commercial	30	NA - 1000	27
182	96	1.00		0.40				Yes			Manual	Easy	Commercial	3	NA NAP	111
184	97	1.00		1.00			Yes				Automatic	Moderate	Commercial	45	NA 1000 - 5000	39
217	98	0.40		0.20			Yes				Automatic	Easy	Commercial	10	NA 1000 - 5000	24
220	99	1.20		0.40			Yes	Yes			Automatic	Moderate	Commercial	30	NA - 1000	39
221	100	1.00		0.30			Yes				Automatic	Moderate	Commercial	50	NA - 1000	39
222	101	1.20		0.40			Yes	Yes			Automatic	Difficult	Commercial	500	45 10000 - 50000	54
229	102	1.00		0.30			Yes				Automatic	Difficult	Commercial	1000	NA 1000 - 5000	72
230	103	2.00		1.00			Yes				Automatic	Difficult	Commercial	100	NA - 1000	36
231	104	1.00		0.30			Yes				Automatic	Easy	Both	15	NA 1000 - 5000	60
235	105	0.30		0.30				Yes			Automatic	Easy	Commercial	11	NA 1000 - 5000	78
236	106	0.30		0.30				Yes			Manual	Easy	Commercial	6	NA 1000 - 5000	60
237	107	3.00		3.00			Yes				Manual	Easy	Commercial	67	NA 5000 - 10000	42
244	108	4.00		4.00			Yes				Automatic	Easy	Commercial	NA	NA 5000 - 10000	63
275	109	2.00		1.00			Yes	Yes			Automatic	Moderate	Both	200	50 10000 - 50000	42
276	110	1.50		0.30			Yes				Automatic	Moderate	Commercial	200	NA 10000 - 50000	81
277	111	1.40		1.00			Yes	Yes			Automatic	Moderate	Both	200	NA 10000 - 50000	75
280	112	1.30		1.30			Yes				Automatic	Easy	Commercial	33	NA 1000 - 5000	45
219	113	0.40		0.20			Yes				Automatic	Easy	Commercial	10	NA 1000 - 5000	30
232	114	1.00		0.40			Yes				Automatic	Easy	Commercial	20	NA NAP	30
233	115	0.40		0.20			Yes				Automatic	Easy	Commercial	10	NA 1000 - 5000	24
202	1	1.30		1.30			Yes				Manual	Difficult	Generator	NA	NA - 1000	77
203	2	2.00		2.00			Yes				Manual	Easy	Commercial	22	NA NAP	375
204	3	2.00		2.00			Yes				Automatic	Easy	Commercial	66	NA - 1000	105
205	4	1.30		1.30			Yes				Automatic	Moderate	Commercial	NA	34 - 1000	108
206	5	2.30	0.40	2.30	0.40		Yes				Automatic	Easy	Both	79	NA NAP	500
207	6	1.00		1.00			Yes				Manual	Easy	Both	11	NA - 1000	90
208	7	2.00		2.00			Yes				Manual	Easy	Both	45	NA NAP	201
209	8	1.30		1.00			Yes				Automatic	Easy	Commercial	17	NA - 1000	45
210	9	2.00		2.00			Yes				Automatic	Easy	Both	45	NA - 1000	186
211	10	1.00		1.00			Yes				Automatic	Easy	Both	11	NA - 1000	150

S.N.	SECTION 3: Well Inventory											3.17 Total OM Cost (US\$)			
	3.10 Operation Hour DS (h/day)			3.10 Operation Hour WS (h/day)			3.11 Purpose	3.12 Pump Operation	3.13 Ease of Switching	3.14 Power Supply	3.15 Power Consumption		3.16 Initial Installation Cost (US\$)		
	A	B	C	A	B	C					Electricity (kWh)			Fuel (L)	
212	11	2.00	2.00	2.00	1.00	1.00	1	Yes	Both	Moderate	Both	68	NA	1000 - 5000	550
213	12	3.00			3.00			Yes	Automatic	Easy	Commercial	NA	NA	- 1000	180
214	13	2.30			2.30			Yes	Automatic	Easy	Commercial	56	NA	- 1000	90
215	14	3.00			3.00			Yes	Automatic	Moderate	Commercial	68	NA	1000 - 5000	203
216	15	1.30			1.30			Yes	Automatic	Moderate	Commercial	34	NA	- 1000	90
245	16	2.00	1.00		1.00	0.30		Yes	Manual	Easy	Commercial	34	NA	- 1000	420
246	17	2.30	1.30		2.30	1.30			Both	Easy	Both	90	NA	1000 - 5000	75
247	18	2.00			1.20				Manual	Easy	Both	22	NA	NAP	225
248	19	1.00			1.00			Yes	Automatic	Easy	Both	22	NA	NAP	90
249	20	1.00			0.30			Yes	Automatic	Easy	Commercial	11	NA	- 1000	90
250	21	1.30			1.00			Yes	Automatic	Difficult	Both	23	NA	- 1000	113
251	22	2.00			1.00			Yes	Manual	Moderate	Generator	NA	30	1000 - 5000	600
252	23	4.00			4.00			Yes	Automatic	Difficult	Both	68	NA	NAP	150
253	24	1.30			1.30			Yes	Automatic	Easy	Both	45	NA	NAP	38
254	25	1.40			1.40			Yes	Automatic	Easy	Both	38	NA	- 1000	105
255	26	1.00			1.00			Yes	Manual	Easy	Both	11	NA	- 1000	90
256	27	1.00			1.00				Automatic	Easy	Commercial	23	NA	- 1000	75
257	28	6.00			6.00			Yes	Automatic	Easy	Both	270	NA	NAP	75
258	29	4.00			3.00				Automatic	Moderate	Both	67	NA	- 1000	120
259	30	3.00			2.00			Yes	Manual	Easy	Commercial	NA	NA	NAP	114
260	31	2.00			2.00				Manual	Easy	Commercial	NA	NA	- 1000	90
261	32	1.00	3.00		1.00	0.30			Automatic	Easy	Both	11	NA	- 1000	180
262	33	2.00			2.00			Yes	Automatic	Difficult	Both	132	NA	NAP	56
263	34	0.30	1.00		0.30	0.20			Automatic	Easy	Both	28	NA	1000 - 5000	150
264	35	1.00			1.00				Automatic	Easy	Both	33	NA	- 1000	195
265	36	0.30	0.20		0.30	0.20			Automatic	Easy	Commercial	28	NA	NAP	90
266	37	1.00			1.00				Automatic	Easy	Commercial	11	NA	NAP	240
267	38	1.00	0.20	0.20	1.00	0.20	0.2		Both	Easy	Both	NA	NA	1000 - 5000	120
268	39	1.10			1.10			Yes	Automatic	Easy	Commercial	23	NA	NAP	56
269	40	6.00	2.00		6.00	2.00		Yes	Manual	Easy	Both	100	NA	NAP	263
5	1	3.00	2.00	2.00	2.30	1.40	1.4	Yes	Automatic	Easy	Both	146	30	10000 - 50000	216
180	2	4.20	4.20		2.00	2.00		Yes	Automatic	Difficult	Commercial	400	NA	5000 - 10000	210
181	3	1.50			1.15			Yes	Automatic	Moderate	Commercial	500	NA	5000 - 10000	180
186	4	4.50			1.50			Yes	Automatic	Easy	Commercial	10000	NA	50000 - 100000	2015
187	5	8.00			5.00			Yes	Automatic	Easy	Commercial	3000	NA	1000 - 5000	720
188	6	1.50			0.45			Yes	Automatic	Difficult	Commercial	NA	NA	10000 - 50000	800
226	7	2.20	2.20		1.15	1.15		Yes	Automatic	Difficult	Both	200	30	5000 - 10000	180
227	8	7.40	7.40		3.20	3.20		Yes	Automatic	Difficult	Commercial	200	NA	NAP	170
228	9	5.30	5.30		2.20	2.20		Yes	Automatic	Difficult	Commercial	500	1000	5000 - 10000	180
270	10	3.20			2.00				Automatic	Difficult	Both	NA	200	10000 - 50000	235
3	1	0.40			0.40			Yes	Automatic	Moderate	Commercial	100	NA	- 1000	80
4	2	4.00			4.00			Yes	Automatic	Easy	Commercial	1600	NA	1000 - 5000	300
6	3	5.00			5.00			Yes	Automatic	Moderate	Both	113	10	1000 - 5000	200
7	4	5.00			6.00			Yes	Manual	Easy	Both	400	100	1000 - 5000	350
8	5	2.00			2.00			Yes	Automatic	Easy	Commercial	1500	NA	1000 - 5000	450
9	6	1.30			2.00			Yes	Automatic	Moderate	Generator	NA	250	NAP	200
10	7	2.00			3.00			Yes	Automatic	Moderate	Commercial	100	NA	NAP	210
11	8	1.20	1.20		3.00	3.00		Yes	Automatic	Moderate	Commercial	NA	NA	NAP	250
12	9	2.40			4.00			Yes	Automatic	Moderate	Both	1000	300	NAP	265
59	10	2.00			2.00			Yes	Manual	Moderate	Commercial	200	NA	- 1000	270
60	11	2.00			2.00			Yes	Automatic	Moderate	Commercial	120	NA	- 1000	200
61	12	1.00			1.00			Yes	Automatic	Easy	Commercial	420	NA	- 1000	256
62	13	2.00			2.00			Yes	Automatic	Easy	Commercial	178	NA	- 1000	250
63	14	1.00			2.00			Yes	Manual	Easy	Commercial	NA	NA	NAP	238
64	15	1.00			2.00			Yes	Manual	Difficult	Commercial	NA	NA	NAP	150
65	16	0.35			1.20			Yes	Automatic	Moderate	Generator	NA	60	1000 - 5000	210
66	17	0.45			1.00			Yes	Automatic	Moderate	Commercial	NA	NA	NAP	130
67	18	1.30			1.30			Yes	Manual	Easy	Commercial	100	190	- 1000	200
68	19	1.30			1.30			Yes	Manual	Moderate	Both	150	200	1000 - 5000	245
69	20	1.30			1.30			Yes	Automatic	Easy	Both	150	200	- 1000	164
70	21	1.10			1.10			Yes	Manual	Easy	Both	100	200	- 1000	160
71	22	1.00			1.30			Yes	Manual	Moderate	Commercial	50	NA	- 1000	200
72	23	5.00			4.00			Yes	Manual	Moderate	Both	600	400	NAP	387
73	24	2.00			2.00			Yes	Automatic	Easy	Commercial	200	NA	1000 - 5000	100

SECTION 3: Well Inventory																	
S.N.	3.10						3.11				3.12	3.13	3.14	3.15		3.16	3.17
	Operation Hour DS (h/day)			Operation Hour WS (h/day)			Purpose				Pump Operation	Ease of Switching	Power Supply	Electricity (KWh)	Fuel (L)	Initial Installation Cost (US\$)	Total OM Cost (US\$)
	A	B	C	A	B	C	Gen. suppl	Pool	Garden	Other							
74	25	2.00		2.00						Yes	Manual	Easy	Commercial	200	NA	1000 - 5000	180
75	26	1.30		1.30						Yes	Manual	Easy	Both	100	100	1000 - 5000	190
189	27	1.30		1.30						Yes	Manual	Difficult	Commercial	150	NA	- 1000	200
190	28	2.00		2.00						Yes	Manual	Moderate	Commercial	100	NA	- 1000	200
191	29	2.00		2.00						Yes	Manual	Easy	Commercial	380	NA	1000 - 5000	160
192	30	2.00		2.00						Yes	Automatic	Easy	Commercial	200	NA	1000 - 5000	195
193	31	2.00		2.00						Yes	Manual	Easy	Commercial	300	NA	1000 - 5000	160
194	32	2.00		2.00						Yes	Manual	Easy	Commercial	200	NA	- 1000	218
223	33	2.30		1.50				Yes		Yes	Automatic	Difficult	Commercial	200	NA	1000 - 5000	110
234	34	1.00		0.40						Yes	Automatic	Easy	Both	20	NA	1000 - 5000	84
273	35	1.00		1.00						Yes	Automatic	Easy	Commercial	1000	30	10000 - 50000	270
274	36	2.30		1.30						Yes	Automatic	Difficult	Both	100	45	10000 - 50000	150
1	37	1.00		1.00						Yes	Automatic	Difficult	Commercial	NA	NA	- 1000	100
2	38	1.00		1.00				Yes		Yes	Automatic	Moderate	Commercial	NA	NA	NAP	66
57	39	0.45		0.45						Yes	Automatic	Easy	Both	50	20	1000 - 5000	180
58	40	1.00		1.00						Yes	Manual	Easy	Commercial	150	NA	NAP	200

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SECTION 4: Water Use Awareness Survey																		
S.N.		4.1		4.2		4.3		4.4				4.5 Technical Problem	4.6 Awareness	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends on what Condition	4.10 If No Reason	4.11 If Yes Reason
		Satisfaction Amount	Satisfaction Quality	Regular M.W. Permanent	Regular M.W. Temporary	Regular M.W. type 1	Frequency Value	Frequency Unit	Frequency type 2	Frequency Value	Frequency Unit							
13	1	Good	Fair			1	0	Change Filter :	4	times/year			Has no technical problem at all	Yes				
14	2	Good	Good			1	0	Change Filter :	4	times/year			Has no technical problem at all	Yes				
15	3	Excellent	Good			2	0	Pump din't wor	12	times/yea	Change C	1 times/yea	Has no technical problem at all	Yes				
16	4	Excellent	Excellent			3	0	Clean filter	2	times/mor	Change C	2 times/yea	Has no technical problem at all	Yes				
17	5	Excellent	Good			1	0	Change Chem	1	times/year			Has no technical problem at all	Yes				
18	6	Excellent	Good			1	0	Change Filter :	4	times/year			Has no technical problem at all	No				
19	7	Excellent	Excellent			1	0	Change Filter :	4	times/year			Has no technical problem at all	Yes				
20	8	Excellent	Good			1	0	Clean filter/rf	1	times/year			Has no technical problem at all	No				
21	9	Excellent	Good			1	0	Change Chem	2	times/year			Smell chemical	No				
22	10	Excellent	Good			1	0	Change Bearir	1	times/year			Has no technical problem at all	No				
23	11	Excellent	Excellent			1	0	Change sand /	6	times/year			Has no technical problem at all	Yes				
25	12	Excellent	Fair			1	0	Nothing					Has no technical problem at all	Yes				
26	13	Good	Excellent			2	0	Change sand /	4	times/year			Has no technical problem at all	Yes				
27	14	Good	Good			1	0	Change Chem	1	times/year			Has no technical problem at all	Yes				
28	15	Excellent	Excellent			2	0	Change Chem	1	times/year			Has no technical problem at all	Yes				
29	16	Good	Good			1	0	Change Chem	1	times/year			Not drinkable	No				
30	17	Good	Good			2	0	Change Filter :	4	times/year			Not drinkable	Yes				
31	18	Excellent	Excellent			3	0	Change Filter :	6	times/yea	Change C	2 times/yea	Pump machine always not working	No				
32	19	Excellent	Good			2	0	Change Resin	1	times/yea	Change w	1 times/mor	Consist of iron	Yes				
33	20	Excellent	Excellent			2	0	Change Chem	2	times/year			Difficult to find a spare parts supply	No				
34	21	Excellent	Excellent			2	0	Change Chem	2	times/yea	Change s	1 times/yea	The pump is not working properly	No				
35	22	Excellent	Good			2	0	Change Filter :	2	times/year			Has no technical problem at all	No				
36	23	Good	Good			2	0	Change Chem	1	times/month			Maintaining regulary such as cleaning filter, changing suppl	Yes				
37	24	Good	Good			1	0	Nothing					A well not produce enough water in dry season	Yes				
38	25	Good	Good			1	0	Change Filter :	1	times/month			Has no technical problem at all	Yes				
39	26	Good	Good			1	0	Change Filter :	4	times/year			Consist of germs	Yes				
40	27	Excellent	Excellent			1	0	Change Filter :	2	times/year			Has no technical problem at all	Yes				
41	28	Excellent	Excellent			1	0	Change Filter :	1	times/week			Has no technical problem at all	No				
42	29	Excellent	Good			1	0	Change Spare	1	times/year			Has no technical problem at all	Yes				
43	30	Excellent	Excellent			1	0	Change Filter :	6	times/year			Has no technical problem at all	Yes				
44	31	Excellent	Excellent			3	0	Change Filter :	1	times/yea	Change c	2 times/yea	Has no technical problem at all	Yes				
45	32	Excellent	Good			1	0	Change Filter :	1	times/year			Has no technical problem at all	Yes				
46	33	Good	Good			1	0	Change Chem	2	times/year			Has no technical problem at all	Yes				
47	34	Good	Fair			1	0	Change Chem	2	times/year			Has no technical problem at all	Yes				
48	35	Good	Fair			1	0	Change Chem	2	times/year			Has no technical problem at all	No				
49	36	Excellent	Excellent			2	0	Change Engine Oil and spare part supply					Pump is not working well	No				
50	37	Excellent	Excellent			2	0	Clean filter	1	times/yea	Maintaina	1 times/mor	Pump is not working well	No				
51	38	Fair	Fair			2	0	Change Spare	1	times/month			Has no technical problem at all	Yes				
52	39	Fair	Poor			1	0	Pump din't wor	1	times/year			Consist of iron	No				
53	40	Good	Good			1	0	Change Spare	1	times/year			Has no technical problem at all	Yes				
54	41	Fair	Fair			2	0	Change Spare	1	times/year			Has no technical problem at all	Yes				
55	42	Good	Good			2	1	PV pipe licking	1	times/year			Has no technical problem at all	Yes				
76	43	Excellent	Excellent			2	0	Change Chem	6	times/year			Has no technical problem at all	Yes				
77	44	Excellent	Excellent			3	0	Change treatm	2	times/year			Has no technical problem at all	No				
107	45	Good	Poor			1	0	Maintenance	1	times/year			Smelling not good	Yes				
163	46	Good	Good			1	0	Nothing					Has no technical problem at all	Yes				
164	47	Good	Good			1	0	Change Chem	2	times/year			Has no technical problem at all	Yes				
165	48	Excellent	Excellent			1	0	Nothing	0				Has no technical problem at all	Yes				
166	49	Good	Fair			1	0	Change Filter :	3	times/year			Consist of iron and can't drink without boil	Yes				
174	50	Good	Good			1	0	Change Chem	2	times/year			Has no technical problem at all	Yes				
175	51	Good	Good			1	0	Nothing					Consit of iron and taste is less salty	No				
176	52	Good	Good			1	0	Nothing					Has no technical problem at all	No				
177	53	Good	Good			1	0	Nothing					the test is less salty	Yes				
183	54	Good	Good			2	0	Nothing					Has no technical problem at all	Yes				
185	55	Good	Good			2	0	Clean water ta	2	times/month			Has no technical problem at all	Yes				
195	56	Good	Good			1	0	Change pump	1	times/year			Consist of iron	Yes				
196	57	Excellent	Excellent			1	0	Change filterat	2	times/year			Has no technical problem at all	Yes				
197	58	Excellent	Good			2	0	Change filter s	3	times/month			Not drinkable	Yes				
198	59	Excellent	Good			2	0	Change Chem	2	times/year			Not drinkable	Yes				
199	60	Excellent	Excellent			3	0	Change Chem	1	times/year			Has no technical problem at all	Yes				
200	61	Excellent	Excellent			2	0	Change filterat	1	times/year			Has no technical problem at all	No				
201	62	Excellent	Excellent			2	0	Change Chem	2	times/year			Has no technical problem at all	No				
218	63	Fair	Good			1	0	Nothing					Consist of iron	No				
272	64	Good	Good			1	0	Change filter s	2	times/year			Treatment before drink	No				
224	65	Good	Good			1	0	Change filter s	4	times/year			Has no technical problem at all	No				
225	66	Good	Good			1	0	Change Chem	2	times/year			Not drinkable	Yes				
278	67	Good	Good			2	0	Change filter s	4	times/year			Has no technical problem at all	Yes				
279	68	Good	Good			1	0	Change filter s	1	times/month			Has no technical problem at all	Yes				

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SECTION 4: Water Use Awareness Survey																			
S.N.	4.1		4.2		4.3		4.4				4.5 Technical Problem	4.6 Awareness	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends on what Condition	4.10 If No Reason	4.11 If Yes Reason		
	Satisfaction		Satisfaction		No. of OM Person		Regular M.W.		Frequency									Frequency	
	Amount	Quality	Permanent	Temporary	type 1	Value	Unit	type 2	Value	Unit									
238	69	Good	Good	1	0	Nothing												Has no technical problem at all	No
239	70	Good	Good	1	0	Change treatr	4	times/year										Has no technical problem at all	No
240	71	Excellent	Excellent	2	0	Change sand :	2	times/year										Has no technical problem at all	No
241	72	Excellent	Excellent	3	0	Change filterat	3	times/year										Has no technical problem at all	Yes
242	73	Excellent	Excellent	1	0	Change sand :	4	times/year										Has no technical problem at all	Yes
243	74	Excellent	Excellent	1	0	Change pump	1	times/year										Has no technical problem at all	No
271	75	Good	Good	1	0	Change filter s	3	times/year										Has no technical problem at all	No
24	1	Good	Good	1	0	Change pump	1	times/year										Has no technical problem at all	No
56	2	Good	Good	1	0	Change pump	2	times/year										Consist of iron and a funny taste. Can't drink without boil	No
78	3	Fair	Fair	1	0	Clean water ta	1	times/year										Has no technical problem at all	Yes
79	4	Good	Good	1	0	Nothing												Has no technical problem at all	No
80	5	Good	Fair	1	0	Nothing												Has no technical problem at all	No
81	6	Good	Good	1	0	Change water	1	times/year										Has no technical problem at all	No
82	7	Good	Good	1	0	Nothing												Has no technical problem at all	Yes
83	8	Good	Fair	1	0	Nothing												Has no technical problem at all	No
84	9	Fair	Fair	1	0	Nothing												Consit of iron	Yes
85	10	Good	Good	1	0	Nothing												Water quantity is not enough in dry season	No
86	11	Fair	Fair	1	0	Nothing												Smell not good and not enough in dry season	Yes
87	12	Fair	Fair	1	0	Nothing												Has no technical problem at all	No
88	13	Fair	Fair	1	0	Nothing												Water quality is not good	Yes
89	14	Fair	Fair	1	0	Change water	2	times/year										Has no technical problem at all	No
90	15	Good	Good	1	0	Nothing												Nothing to maintain and care	No
91	16	Excellent	Excellent	1	0	Change stell v:	0											Water consist of iron and smell not good	No
92	17	Good	Good	1	0	Nothing												Has no technical problem at all	No
93	18	Fair	Fair	1	0	Change Bearir	1	times/year										Smells dirt and iron	Yes
94	19	Fair	Fair	1	0	Change pump	1	times/year										Has no technical problem at all	Yes
95	20	Fair	Fair	1	0	Nothing												Smelling of iron	No
96	21	Fair	Fair	1	0	Nothing												Consist of iron, the color is black	No
97	22	Good	Good	1	0	Nothing												Has no technical problem at all	Yes
98	23	Good	Poor	1	0	Nothing												Keep it overnight than turn red	No
99	24	Fair	Poor	1	0	Yearly maitain	1	times/year										Smelling of dirt and iron	Yes
100	25	Good	Fair	1	0	Change carboi	1	times/year										Has no technical problem at all	Yes
101	26	Good	Fair	1	0	Change pump	1	times/year										Has no technical problem at all	Yes
102	27	Fair	Fair	1	0	Change pump	1	times/year										Has no technical problem at all	Yes
103	28	Fair	Poor	1	0	Nothing												Kepp it overnight than turn red and smell bad	No
104	29	Good	Fair	1	0	Nothing												Has no technical problem at all	Yes
105	30	Good	Fair	1	0	Change Filter :	1	times/year										Has no technical problem at all	No
106	31	Fair	Poor	1	0	Faucet	1	times/month										Keep it overnight and then turned red	Yes
108	32	Good	Good	1	0	Maintainence	2	times/year										Has no technical problem at all	Yes
109	33	Good	Fair	1	0	Maintainence	1	times/year										Has no technical problem at all	Yes
110	34	Good	Good	1	0	Nothing												Sometime not working properly	No
111	35	Good	Poor	1	0	Change Motor	1	times/year										Smelling iron and look red	Yes
112	36	Fair	Fair	1	0	Nothing												Has no technical problem at all	Yes
113	37	Good	Good	1	0	Nothing												Has no technical problem at all	No
114	38	Good	Poor	1	0	Nothing												Smelling iron and look red	Yes
115	39	Good	Good	1	0	Nothing												Has no technical problem at all	No
116	40	Fair	Poor	1	0	Nothing												Smelling of iron	No
117	41	Good	Good	1	0	Nothing												Has no technical problem at all	Yes
118	42	Good	Fair	1	0	Nothing												Has no technical problem at all	Yes
119	43	Good	Good	1	0	Nothing												Has no technical problem at all	No
120	44	Fair	Poor	1	0	Nothing												Smelling of dirt and iron	Yes
121	45	Good	Good	1	0	Nothing												Has no technical problem at all	Yes
122	46	Good	Fair	1	0	Nothing												Consist with iron	Yes
123	47	Good	Fair	1	0	Nothing												Consist of iron	Yes
124	48	Fair	Poor	1	0	Nothing												Smelling of dirt and iron	Yes
125	49	Fair	Fair	1	0	Nothing												Has no technical problem at all	No
126	50	Good	Poor	1	0	Nothing												Cloudy colour, read	Yes
127	51	Good	Fair	1	0	Fixing pump	4	times/year										Consist of iron and red colour	Yes
128	52	Good	Poor	1	0	Nothing												Smell dirt and iron	Yes
129	53	Good	Good	1	0	Nothing												Has no technical problem at all	Yes
130	54	Good	Fair	1	0	Fixing pump	1	times/year										Smelling of iron	Yes
131	55	Fair	Poor	1	0	Change chaco	1	times/month										It look red	Yes
132	56	Fair	Poor	1	0	PV pipe licking	1	times/month										Consist of iron and taste funny	Yes
133	57	Good	Fair	1	0	Chang shower	1	times/month										It has a funny taste	Yes
134	58	Good	Good	1	0	Nothing												Has no technical problem at all	Yes
135	59	Fair	Fair	1	0	Nothing												Has no technical problem at all	Yes

SECTION 4: Water Use Awareness Survey																	
S.N.	4.1		4.2		4.3		4.4				4.5 Technical Problem	4.6 Awareness	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends on what Condition	4.10 If No Reason	4.11 If Yes Reason
	Satisfaction	Quality	Permanent	Temporary	Regular M.W.	Frequency		Frequency									
						type 1	Value	Unit	type 2	Value							
136	60	Fair	Poor	1	0	Fixing pump	2	times/year			It not good to use for the rooms, it red color	Yes					
137	61	Fair	Fair	1	0	Faucet and sh	1	times/month			Has no technical problem at all	Yes					
138	62	Good	Poor	1	0	Nothing					Smell dirt and iron	Yes					
139	63	Good	Fair	1	0	Nothing					It has funny taste	No					
140	64	Good	Poor	1	0	Change carboi	1	times/year			It smelling badly and look red in color	Yes					
141	65	Good	Fair	1	0	Change faucet	1	times/year			Has no technical problem at all	Yes					
142	66	Good	Fair	1	0	Change faucet	2	times/year			Has no technical problem at all	No					
143	67	Fair	Fair	1	0	Change faucet	1	times/month			Consist of iron and taste funny	Yes					
144	68	Good	Fair	1	0	Shower and fa	3	times/year			It look red	No					
145	69	Poor	Good	1	0	PV pipe licking	1	times/month			Has no technical problem at all	No					
146	70	Fair	Poor	1	0	Change hoses	1	times/month			Smell dirt and iron	No					
147	71	Fair	Poor	1	0	Chang shower	1	times/month			Smell dirt and iron	Yes					
148	72	Fair	Poor	1	0	Change showe	1	times/month			It has funny taste	Yes					
149	73	Good	Good	1	0	Nothing					Has no technical problem at all	No					
150	74	Fair	Poor	1	0	Nothing					Smell dirt and iron	No					
151	75	Fair	Fair	1	0	Shower and fa	1	times/year			Keep it overnight and then turned red	Yes					
152	76	Good	Poor	1	0	A Foat is not w	1	times/year			Consist of iron and smell not good	No					
153	77	Good	Fair	1	0	Nothing					Has no technical problem at all	Yes					
154	78	Fair	Fair	1	0	Shower and fa	0	times/month			Has no technical problem at all	Yes					
155	79	Good	Poor	1	0	Nothing					Being use ground water, It makes everything look red	Yes					
156	80	Good	Fair	1	0	Nothing					Has no technical problem at all	No					
157	81	Fair	Poor	1	0	Nothing					Pump machine not working well	Yes					
158	82	Fair	Fair	1	0	Nothing					Has no technical problem at all	Yes					
159	83	Fair	Fair	1	0	Shower and fa	1	times/month			PV pipe is licking and pump machine not working well	Yes					
160	84	Fair	Good	1	0	Change chaco	1	times/year			Consist of iron	Yes					
161	85	Good	Poor	1	0	Dynamically pc	1	times/year			Pump machine is not working well.	No					
162	86	Good	Good	1	0	Nothing					Has no technical problem at all	Yes					
167	87	Good	Good	1	0	Change filter s	3	times/year			Can't drink without boil	No					
168	88	Good	Good	1	0	Clean water ta	2	times/year			Has no technical problem at all	No					
169	89	Good	Good	1	0	Change filter s	4	times/year			Has no technical problem at all	No					
170	90	Good	Good	1	0	Change pump	1	times/year			Has no technical problem at all	Yes					
171	91	Good	Good	1	0	Change pump	2	times/year			Has no technical problem at all	No					
172	92	Good	Good	1	0	Change Yot su	1	times/year			Has no technical problem at all	No					
173	93	Good	Good	1	0	Change starter	2	times/year			Has no technical problem at all	No					
178	94	Good	Good	1	0	Change pump	2	times/year			Has no technical problem at all	No					
179	95	Good	Good	1	0	Nothing					Has no technical problem at all	No					
182	96	Good	Fair	1	0	Nothing					Has no technical problem at all	Yes					
184	97	Good	Fair	1	0	Floating not wc	1	times/year			Consist of iron	No					
217	98	Good	Fair	1	0	Fixing pump	1	times/year			Consist of iron	No					
220	99	Good	Good	1	0	Change pump	2	times/year			Can't drink without boil	No					
221	100	Good	Good	1	0	Change starer	3	times/year			Treatment first before drink	No					
222	101	Good	Good	1	0	Nothing					Has no technical problem at all	Yes					
229	102	Good	Good	1	0	Change pump	2	times/year			Has no technical problem at all	No					
230	103	Good	Good	1	0	Nothing					Has no technical problem at all	No					
231	104	Good	Fair	1	0	licking hoses	1	times/year			Consist of iron and smell not good	Yes					
235	105	Fair	Fair	1	0	Nothing					Consist of iron and smell not good	No					
236	106	Good	Good	1	0	Nothing					Smell muddy and consist of iron	Yes					
237	107	Fair	Fair	1	0	Nothing					Consist of iron	Yes					
244	108	Fair	Fair	1	0	Change plastic	1	times/year			Consist of iron	Yes					
275	109	Good	Good	1	0	Change sand :	3	times/year			Has no technical problem at all	No					
276	110	Good	Good	1	0	Change sand f	3	times/year			Has no technical problem at all	No					
277	111	Good	Good	1	0	Change filter s	4	times/year			Has no technical problem at all	No					
280	112	Good	Fair	1	0	Nothing					Has no technical problem at all	No					
219	113	Fair	Good	1	0	Nothing					Poor quality water system	Yes					
232	114	Good	Good	1	0	Change faucet	1	times/year			Has no technical problem at all	No					
233	115	Good	Fair	1	0	Nothing					Consist of iron	No					
202	1	Good	Poor	1	0	Change charc	4	times/year			Turned red when keep it overnight	Yes					
203	2	Fair	Fair	1	0	Change charc	3	times/year			Turned red when keep it overnight	No					
204	3	Good	Fair	1	0	Pump burned	1	times/year			Consist of iron and smell not good	Yes					
205	4	Good	Fair	1	0	Nothing					Has no technical problem at all	No					
206	5	Good	Fair	1	0	Nothing					Has no technical problem at all	No					
207	6	Good	Fair	1	0	Nothing					Has no technical problem at all	Yes					
208	7	Fair	Fair	1	0	Change faucet	2	times/year			Has no technical problem at all	Yes					
209	8	Good	Good	1	0	Nothing					Has no technical problem at all	No					
210	9	Fair	Fair	1	0	Pump burned	1	times/year			Consist of iron, keep it overnight than turned red	Yes					
211	10	Fair	Good	1	0	Nothing					Has no technical problem at all	Yes					

SECTION 4: Water Use Awareness Survey																		
S.N.	4.1		4.2		4.3		4.4			4.5 Technical Problem	4.6 Awareness	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends on what Condition	4.10 If No Reason	4.11 If Yes Reason		
	Satisfaction	Amount	Satisfaction	Quality	No. of OM	Person	Regular M.W.	Frequency									Frequency	
								type 1	Value								Unit	type 2
212	11	Good	Good	Good	2	0	Pump burned	1	times/year							Yes		
213	12	Fair	Fair	Fair	1	0	Pump burned	1	times/year							Yes		
214	13	Good	Fair	Fair	1	0	Nothing									Yes		
215	14	Good	Fair	Fair	1	0	Nothing									No		
216	15	Fair	Fair	Fair	1	0	Pump burned	1	times/year							Yes		
245	16	Good	Fair	Fair	1	0	Change pump	1	times/year							Yes		
246	17	Fair	Good	Good	1	0	Nothing									Yes		
247	18	Good	Poor	Poor	1	0	Clean basin ar	1	times/year							Yes		
248	19	Good	Poor	Poor	1	0	Pump is not wr	1	times/year							No		
249	20	Fair	Fair	Fair	1	0	Nothing									Yes		
250	21	Good	Fair	Fair	1	0	Change charcx	4	times/year							Yes		
251	22	Good	Good	Good	1	0	Nothing									No		
252	23	Fair	Fair	Fair	1	0	Nothing									Yes		
253	24	Good	Good	Good	1	0	Nothing									No		
254	25	Good	Poor	Poor	1	0	Fixing pump	1	times/year							Yes		
255	26	Good	Fair	Fair	1	0	Clean basin ar	4	times/year							No		
256	27	Good	Poor	Poor	1	0	Nothing									No		
257	28	Fair	Fair	Fair	1	0	Change faucet	1	times/month							Yes		
258	29	Good	Fair	Fair	1	0	Fixing pump	1	times/year							No		
259	30	Good	Fair	Fair	1	0	Change filter s	2	times/year							No		
260	31	Good	Fair	Fair	1	0	Nothing									No		
261	32	Good	Fair	Fair	1	0	Nothing									Yes		
262	33	Good	Poor	Poor	1	0	Clean basin ar	1	times/year							Yes		
263	34	Good	Poor	Poor	1	0	Nothing									Yes		
264	35	Fair	Poor	Poor	1	0	Fixing pump	1	times/year							Yes		
265	36	Good	Poor	Poor	1	0	Change faucet	1	times/year							Yes		
266	37	Good	Poor	Poor	1	0	Fixing pump	1	times/year							Yes		
267	38	Poor	Poor	Poor	1	0	Nothing									Yes		
268	39	Good	Poor	Poor	1	0	Fixing pump	1	times/year							Yes		
269	40	Fair	Poor	Poor	1	0	Change pump	1	times/year							No		
5	1	Fair	Fair	Fair	1	1	Change pump	1	times/year							Yes		
180	2	Excellent	Excellent	Excellent	1	0	Change pump	4	times/year							No		
181	3	Excellent	Excellent	Excellent	1	0	Change filter 8	2	times/year							No		
186	4	Excellent	Excellent	Excellent	1	0	Clean filter	3	times/year							No		
187	5	Excellent	Excellent	Excellent	1	0	Change sand,	2	times/month							No		
188	6	Excellent	Good	Good	1	0	Change Chem	2	times/year							No		
226	7	Excellent	Excellent	Excellent	1	0	Change filter s	4	times/year							No		
227	8	Good	Good	Good	1	0	Change pump	2	times/year							No		
228	9	Good	Good	Good	1	0	Change filter s	4	times/year							No		
270	10	Excellent	Excellent	Excellent	1	0	Change filter a	2	times/year							No		
3	1	Good	Fair	Fair	1	0	Nothing									No		
4	2	Good	Good	Good	1	0	Change Bearir	3	times/yea Pump abt							No		
6	3	Fair	Fair	Fair	1	1	Repair the repi	1	times/mor repair							Yes		
7	4	Good	Good	Good	1	0	Nothing									No		
8	5	Good	Good	Good	1	0	Nothing									No		
9	6	Good	Good	Good	1	0	Change Filter :	2	times/year							No		
10	7	Good	Good	Good	1	0	Change Filter :	2	times/year							No		
11	8	Good	Good	Good	1	0	Change Spare	6	times/year							No		
12	9	Fair	Fair	Fair	1	0	Nothing									No		
59	10	Good	Fair	Fair	1	0	Change pump	2	times/year							No		
60	11	Good	Good	Good	1	0	Change Spare	1	times/year							Yes		
61	12	Good	Good	Good	1	0	Change Bearir	2	times/year							No		
62	13	Good	Good	Good	1	0	Repair pump	4	times/year							No		
63	14	Good	Good	Good	1	0	Repair pump	2	times/year							No		
64	15	Good	Good	Good	1	0	Repair pump	3	times/year							No		
65	16	Good	Good	Good	1	0	Repair pump	6	times/year							No		
66	17	Good	Good	Good	1	0	Repair pump	4	times/year							Yes		
67	18	Good	Good	Good	1	0	Change Bearir	4	times/year							No		
68	19	Good	Good	Good	1	0	Change pump	2	times/year							No		
69	20	Good	Good	Good	1	0	Change ring ai	2	times/year							No		
70	21	Good	Good	Good	1	0	Change ring ai	2	times/year							No		
71	22	Good	Fair	Fair	1	0	Change Bearir	2	times/year							Yes		
72	23	Good	Fair	Fair	1	0	Change Bearir	2	times/month							No		
73	24	Good	Fair	Fair	1	0	Change pump	1	times/year							No		

SECTION 4: Water Use Awareness Survey																	
S.N.	4.1		4.2		4.3		4.4				4.5 Technical Problem	4.6 Awareness	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends on what Condition	4.10 If No Reason	4.11 If Yes Reason
	Satisfaction	Quality	Permanent	Temporary	Regular M.W. type 1	Frequency		Frequency									
						Value	Unit	type 2	Value	Unit							
74	25	Good	Good	1	0	Change Bearir	4	times/year			Consist of iron	No					
75	26	Good	Fair	1	0	Change piston	2	times/year			Not drinkable and consist of iron	No					
189	27	Fair	Fair	1	0	Change belt	3	times/month			Not drinkable	No					
190	28	Fair	Fair	1	0	Change belt &	3	times/month			Not drinkable	No					
191	29	Good	Good	1	0	Nothing					Well not produce good water, Can't drink without boil	No					
192	30	Fair	Fair	1	0	Nothing					Consist of iron	No					
193	31	Good	Good	1	0	Change obsort	3	times/year			Can't drink without boil	No					
194	32	Good	Good	1	0	Change pump	3	times/year			Can't drink without boil	No					
223	33	Good	Good	1	0	Nothing					Has no technical problem at all	No					
234	34	Fair	Fair	1	0	Change faucet	1	times/month			Consist of iron	Yes					
273	35	Good	Good	1	0	Nothing					Has no technical problem at all	No					
274	36	Good	Good	1	0	Nothing					Has no technical problem at all	No					
1	37	Good	Good	1	0	Nothing					Nothing to maintain and care about	Yes					
2	38	Good	Good	1	0	Nothing					Has no technical problem at all	No					
57	39	Good	Good	1	0	Change chaco	1	times/year			Has no technical problem at all	No					
58	40	Good	Good	1	0	Change Bearir	2	times/year			Has no technical problem at all	Yes					

SECTION 4: Water Use Awareness Survey					
S.N.	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends Condition		
			on what		
13	1	excessive pumping may make inconsistence underground	Yes		
14	2	Pumping more, soil erosion => affected building	Yes		
15	3	Unbalance of sand and water, this could lead to sink and lowering the build	Yes		
16	4	Lost underground balance	No		
17	5	Can sink the big construction building	Depends	Cost	If not higher than the current system, will use
18	6	NAP	Yes		
19	7	Lack of underground water in the future	Depends	Usability	
20	8	NAP	Depends	Cost	If not higher than the existing one, the water supply system will be used
21	9	NAP	No		
22	10	NAP	No		
23	11	Lost water balance and damage the culture remains	Yes		
25	12	Pumping more, soil erosion => affected building and temple	Yes		
26	13	Lost water balance and damage the culture remains	Yes		
27	14	Can sink the big construction building	Yes		
28	15	The same in London, the buildings sink	Yes		
29	16	NAP	Yes		
30	17	It cause heavily construction to unstable the position if not fully recharge	Yes		
31	18	NAP	Depends	Other	On the study of the price at own pump & price of water & as the installation cost of existing system in
32	19	Unbalance groundwater level	Yes		
33	20	NAP	Yes		
34	21	NAP	No		
35	22	NAP	Depends	Cost	If the price is cheaper than current expense
36	23	Erosion, Big building will collapse as in London	Yes		
37	24	Soil erosion will lead building to unstable position	Yes		
38	25	Angkor may unstable its position	Yes		
39	26	Big building will collapse	Yes		
40	27	Heritage site will collapse in the future	Yes		
41	28	NAP	Yes		
42	29	Damage the culture remains to cracking a part in the future	Yes		
43	30	Affected with building, Angkor will sink in the future	Yes		
44	31	Big building will collapse	Yes		
45	32	Affected with building, Angkor will sink in the future	Yes		
46	33	Sink big building	Yes		
47	34	Affect the heritage site	Yes		
48	35	NAP	No		
49	36	NAP	No		
50	37	NAP	No		
51	38	Lack of underground water make inconsistence angkor	Yes		
52	39	NAP	Yes		
53	40	Make underground structure to be inconsistence	Yes		
54	41	Pumping more, soil erosion => affected building and temple	Yes		
55	42	Pumping more, soil erosion => affected building and temple	Yes		
76	43	Use underground water will impact water drawing to the angkor	Yes		
77	44	NAP	Yes		
107	45	Pumping more, soil erosion => affected building and temple	Yes		
163	46	The big building will sink in the future	Yes		
164	47	The big building will sink in the future	Yes		
165	48	The temple will be inposition in the future	Depends	Cost	If cost is not higher than current system of hotel
166	49	The temple will sink down in the future	Yes		
174	50	The big building will sink in the future	Yes		
175	51	NAP	Yes		
176	52	NAP	Yes		
177	53	Big building and temple may sink	Yes		
183	54	Pumping more, soil erosion => affected building and temple	Yes		
185	55	If no balance, it will be unstable the Angkor heritage site	No		
195	56	Use underground water may impact the culture remains	Yes		
196	57	Unstable position of the culture remains in the future	Depends	Cost	If not higher expense than current expense
197	58	The city will sink	Yes		
198	59	Concern for all if no control => unstable culture remains	Yes		
199	60	It is now a concern for the government of Cambodia	Yes		
200	61	NAP	Yes		
201	62	NAP	No		
218	63	NAP	Yes		
272	64	NAP	Yes		
224	65	NAP	No		
225	66	The temple will sink	Yes		
278	67	The temple will sink	Depends	Cost	If the price is lower than current operation system
279	68	The temple will sink	Yes		

SECTION 4: Water Use Awareness Survey				
S.N.		4.7 Opinion	4.8 Intention to Switch	4.9 If Depends Condition
238	69	NAP	No	
239	70	NAP	Yes	
240	71	NAP	Yes	
241	72	It will be indirect impact to water drawing the culture remains in the future	Yes	
242	73	It will be indirect impact to water drawing the culture remains in the future	Yes	
243	74	NAP	Yes	
271	75	NAP	No	
24	1	NAP	Yes	
56	2	NAP	Yes	
78	3	Damage building, temple	Depends	Cost If low cost and enough supply
79	4	NAP	Yes	
80	5	NAP	Yes	
81	6	NAP	Yes	
82	7	Damage building, temple	Yes	
83	8	NAP	Yes	
84	9	The building will sink in the future if can't recharge ground water	Yes	
85	10	NAP	No	
86	11	Affected with the city environment system	Yes	
87	12	NAP	Yes	
88	13	Lost balance/ quantity this cause buildings sink in the future	Yes	
89	14	NAP	Yes	
90	15	NAP	No	
91	16	NAP	Yes	
92	17	NAP	No	
93	18	It will likely to get impact to the culture remains	Yes	
94	19	Pumping more, soil erosion => affected building, temple	Yes	
95	20	NAP	Yes	
96	21	NAP	Yes	
97	22	Pumping more, soil erosion => affected building	Yes	
98	23	NAP	Yes	
99	24	Will get impact to the culture remains in the future	Yes	
100	25	Absolutely impact due to inconsistency of ground water source	Yes	
101	26	Pumping more, soil erosion => affected building	Yes	
102	27	Pumping more, soil erosion => affected temple	Yes	
103	28	NAP	Yes	
104	29	Pumping more => soil erosion	Yes	
105	30	NAP	Yes	
106	31	Because water withdrawal may make soil erosion at underground level	Yes	
108	32	may make inconsistency groundwater level in the future	No	
109	33	It will impact to the culture remains	Yes	
110	34	NAP	Depends	Cost According to the owner, the cost is low as in Phnom Penh
111	35	Pumping more, soil erosion => affected building and temple	Yes	
112	36	Pumping more, soil erosion => affected building and temple	Yes	
113	37	NAP	Yes	
114	38	Pumping more => soil erosion	Yes	
115	39	NAP	No	
116	40	NAP	Yes	
117	41	Pumping more => soil erosion	Yes	
118	42	Pumping more => soil erosion	Yes	
119	43	NAP	Yes	
120	44	Pumping more => soil erosion	Yes	
121	45	Pumping more => soil erosion	Yes	
122	46	Pumping more => soil erosion	Yes	
123	47	More groundwater withdrawal make inconsistency at underground level	Yes	
124	48	Pumping more => soil erosion	Yes	
125	49	NAP	Yes	
126	50	Pumping more => soil erosion	Yes	
127	51	Pumping more => soil erosion	Yes	
128	52	Pumping more => soil erosion	Yes	
129	53	Pumping more => soil erosion	Yes	
130	54	Pumping more => soil erosion	Yes	
131	55	Pumping more => soil erosion	Yes	
132	56	Pumping more => soil erosion	Yes	
133	57	Pumping more => soil erosion	Yes	
134	58	Pumping more => soil erosion	Yes	
135	59	Pumping more => soil erosion	Yes	

SECTION 4: Water Use Awareness Survey				
S.N.	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends Condition	
			on what	
136	60 Pumping more => soil erosion	Yes		
137	61 Pumping more => soil erosion	Yes		
138	62 Pumping more => soil erosion	Yes		
139	63 NAP	Yes		
140	64 Pumping more => soil erosion	Yes		
141	65 Pumping more => soil erosion	Yes		
142	66 NAP	Yes		
143	67 Pumping more => soil erosion	Yes		
144	68 NAP	Yes		
145	69 NAP	Yes		
146	70 describe	Yes		
147	71 Pumping more => soil erosion	Yes		
148	72 Pumping more => soil erosion	Yes		
149	73 NAP	Yes		
150	74 NAP	Yes		
151	75 Pumping more, soil erosion => affected building and temple	Yes		
152	76 NAP	Yes		
153	77 Will have trouble one day for building and temple	Yes		
154	78 Pumping more, soil erosion => affected building and temple	Yes		
155	79 Will make unstability of the ground surface	Yes		
156	80 NAP	Yes		
157	81 Pumping more, soil erosion => affected building and temple	Yes		
158	82 Pumping more, soil erosion => affected building and temple	Yes		
159	83 Pumping more, soil erosion	Yes		
160	84 Make underground structure to be inconstence	Yes		
161	85 NAP	Yes		
162	86 Make underground structure to be inconstence	Yes		
167	87 NAP	Depends	Cost	If price is not higher than current water consumption
168	88 NAP	Yes		
169	89 NAP	Yes		
170	90 Make underground structure to be inconstence	Yes		
171	91 NAP	No		
172	92 NAP	No		
173	93 NAP	No		
178	94 NAP	No		
179	95 NAP	No		
182	96 Will have trouble one day for building and temple	Yes		
184	97 NAP	No		
217	98 NAP	Depends	Cost	
220	99 NAP	Yes		
221	100 NAP	Yes		
222	101 The big building will sink if no balance of ground water level	Depends	Cost	If the price is lower than my current operation
229	102 NAP	No		
230	103 NAP	No		
231	104 It will impact to the culture remains	Yes		
235	105 NAP	Yes		
236	106 Pumping more, soil erosion => affected building and temple	Yes		
237	107 It will impact to the culture remains	Yes		
244	108 Will have trouble one day for building and temple	Yes		
275	109 NAP	Depends	Cost	If not higher than current system
276	110 NAP	No		
277	111 NAP	No		
280	112 NAP	Yes		
219	113 It will impact to the culture remains	Yes		
232	114 NAP	No		
233	115 NAP	Yes		
202	1 Pumping more => soil erosion	Yes		
203	2 NAP	Yes		
204	3 Pumping more => soil erosion	Yes		
205	4 describe	Yes		
206	5 describe	Yes		
207	6 Pumping more => soil erosion	Yes		
208	7 Pumping more => soil erosion	Yes		
209	8 describe	Yes		
210	9 Pumping more => soil erosion	Yes		
211	10 Pumping more => soil erosion	Yes		

SECTION 4: Water Use Awareness Survey				
S.N.	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends Condition	
			on what	
212	11 Pumping more => soil erosion	Yes		
213	12 Pumping more => soil erosion	Depends	Cost	If the cost is cleaper than the current water consumption
214	13 Pumping more => soil erosion	Yes		
215	14 NAP	Depends	Usability	if the use is more
216	15 Pumping more => soil erosion	Yes		
245	16 Pumping more => soil erosion	Yes		
246	17 Pumping more => soil erosion	Yes		
247	18 Pumping more => soil erosion	Yes		
248	19 NAP	Yes		
249	20 Pumping more => soil erosion	Yes		
250	21 Pumping more => soil erosion	Yes		
251	22 NAP	Yes		
252	23 Pumping more => soil erosion	Yes		
253	24 NAP	No		
254	25 Pumping more => soil erosion	Yes		
255	26 NAP	Yes		
256	27 NAP	Yes		
257	28 Pumping more => soil erosion	Yes		
258	29 NAP	Yes		
259	30 NAP	Yes		
260	31 NAP	Yes		
261	32 Pumping more => soil erosion	Yes		
262	33 Pumping more => soil erosion	Yes		
263	34 Pumping more => soil erosion	Yes		
264	35 Pumping more => soil erosion	Yes		
265	36 Pumping more => soil erosion	Yes		
266	37 Pumping more => soil erosion	Yes		
267	38 Pumping more => soil erosion	Yes		
268	39 Pumping more => soil erosion	Yes		
269	40 NAP	Yes		
5	1 Make unstable underground => soil erosion	Yes		
180	2 NAP	No		
181	3 NAP	No		
186	4 NAP	No		
187	5 NAP	No		
188	6 NAP	No		
226	7 NAP	No		
227	8 NAP	No		
228	9 NAP	No		
270	10 NAP	No		
3	1 NAP	Yes		
4	2 NAP	No		
6	3 Pumping more => soil erosion in the future	Yes		
7	4 NAP	No		
8	5 NAP	No		
9	6 NAP	Depends	Cost	If low cost
10	7 NAP	Yes		
11	8 NAP	No		
12	9 NAP	No		
59	10 NAP	No		
60	11 Damage Angkor foundation	Yes		
61	12 NAP	No		
62	13 NAP	No		
63	14 NAP	Yes		
64	15 NAP	Depends	Cost	Interesting to use if low cost as in Phnom Penh
65	16 NAP	Depends	Cost	If available of city water system connected and appropriate price
66	17 Lost water balance at underground	No		
67	18 NAP	No		
68	19 NAP	No		
69	20 NAP	No		
70	21 NAP	No		
71	22 Ground water level decrease as more pumping	No		
72	23 NAP	No		
73	24 NAP	No		

SECTION 4: Water Use Awareness Survey			
S.N.	4.7 Opinion	4.8 Intention to Switch	4.9 If Depends Condition
74	25 NAP	No	on what
75	26 NAP	Yes	
189	27 NAP	No	
190	28 NAP	No	
191	29 NAP	No	
192	30 NAP	No	
193	31 NAP	No	
194	32 NAP	No	
223	33 NAP	No	
234	34 Pumping more => soil erosion in the future	Yes	
273	35 NAP	Yes	
274	36 NAP	No	
1	37 Big building may collapse	Yes	
2	38 NAP	No	
57	39 NAP	Yes	
58	40 Serious concerns for this; it may lead angkor inposition	Yes	

SECTION 4: Water Use Awareness Survey			
S.N.		4.10 If No Reason	4.11 If Yes Reason
13	1		The pipe water supply is easy to use
14	2		Clean water & price maybe cheaper than pump direct from ground and don't expense for maintainanc
15	3		To conserve our planet, it is much easy & less pollution to environment
16	4	Spend a lot of money for Pump installed and more than expensive than ground water	
17	5		Easy to use to clean water & maybe cheaper expense
18	6		
19	7		
20	8		
21	9	Because the cost is high and not regular supply	
22	10	I invest too much with my system and it's working alright at the moment	
23	11		Keep clean and good quality
25	12		It's good quality and clean
26	13		The boreholes can't supply for general uses of the water for the hotel
27	14		It's good quality and environmental conservation
28	15		Water is clean but not too sore if compare to the hotel one
29	16		It's good and clean water
30	17		It's easy to use, safe water and less expense
31	18		
32	19		Easy to use and less expense if pressure is stronge
33	20		Less environmental impact, use all existing local resource if available
34	21	Low pressure, the price is expensive if compare to the use of ground water/present facilities	
35	22		
36	23		Serve the ground water to balance and keep the environmental be friendly
37	24		Clean water & save the ground water to be balance
38	25		Good environment
39	26		Easy to use & cost effectiveness
40	27		Whenever have the public water system available
41	28		Easy to use & clean water
42	29		Cultural remains is our income so if no income than people will go out to other place so take care of e
43	30		Very consistant & clean water
44	31		Conservation of balancing of an environment & easy to use
45	32		Easy to use & clean water
46	33		Easy to use, clean water and good environmental
47	34		Easy to use, clean water and environmental is friendly
48	35	The cost is expensive including cost of connection	
49	36	We spend a lot of money to install the pump system	
50	37	Because we have many boreholes, these boreholes can supply for general operation, pool and gardening	
51	38		Easy to use and good environment
52	39		Already connected to pipe water supply
53	40		Don't spend to the maintain, clean water and good environment
54	41		Easy to use and less expense
55	42		Easy to use and clean
76	43		Easy to manage and control the amount of water in the hotel, if the price are cheaper than water from
77	44		Use pipe water supply that is easier than borehole
107	45		It is easy to use and clean water to the standard
163	46		Easy to use
164	47		Easy to use and keep environment freindly
165	48		
166	49		Less expense & keep environment friendly
174	50		Good environment
175	51		Easy to use and clean water
176	52		Easy to use, the plants can grow quickly and less expense on maintenance
177	53		Easy to use and less maintenance work
183	54		Easy to use and standard water supply system
185	55	I just invest into the water system	
195	56		To reduce of using the underground water and water supply system is better than water from borehol
196	57		
197	58		Easy to use and less expense
198	59		Easy to use and ensure the ground water balance
199	60		Good to use and maybe less expense
200	61		Quality is good
201	62	High cost in connection fee and water price	
218	63		Good hygine and clean water
272	64		Clean and less maintenance
224	65	The hotel already invested too much on the water system	
225	66		Easy to use and less maintenance
278	67		
279	68		Easy to use and save the ground water balance

SECTION 4: Water Use Awareness Survey		
S.N.	4.10 If No Reason	4.11 If Yes Reason
238	69 Because they can use the existing borehole very well	
239	70	It is easy for general operation
240	71	Using piped water supply more easy than using water from borehole and also quality
241	72	It made easy than using borehole, no need more treatment and uses less staff than boreholes
242	73	The pipe water system is good quality
243	74	The quality is better than borehole
271	75 My current system is cheaper than pipe water	
24	1	Gaining profit, hygiene, general use (please provide the water enough supply to use and can go up un)
56	2	Easy to use and have clean water
78	3	
79	4	Easy to use & have access to clean water
80	5	Easy to use & good quality
81	6	Good quality
82	7	Good quality
83	8	Because of the Pump water is bad quality
84	9	Because complaining of guest regarding with the quality (smell & coloring)
85	10 Because the cost is expensive (1200riel/M3) recomment = 700 riel/m3appropriate	
86	11	Clean and no complian, request to get down the water cost
87	12	Because good quality and make the guest be happy
88	13	Because pump water is not clean
89	14	Request to go down the water cost = 700riel /m3
90	15 City water sometime is not enough / sufficence	
91	16	Clean water and easy to use
92	17 Well Pump water is enough for using	
93	18	Clean water is everything look clean
94	19	Because the city water is so clean and don't effect to the ground water
95	20	Clean water and easy to use
96	21	The usage of water is not much and easy to use
97	22	Use the clean water can reduce of using the ground water, less expense and the guest will be happy
98	23	The guest will be content, the room & place are clean and don't effect to the health
99	24	Reduce the water from well, good quality, can drink, the room will not dirty and the guest will be conte
100	25	Reduce the water from well, clean water, the room and towel will not be dirty and the guest will be cor
101	26	Reduce using of ground water and it's clean water
102	27	Reduce the water from well, clean water and the room and towel will not be dirty
103	28	Easy to use, the room is not dirty and can drink
104	29	Clean water, the towel and room are clean and don't disturb the guest when we pump the water from
105	30	Clean water for cooking and we will use both of the city water and well water
106	31	Clean water, the towel and bedsheet are so clean
108	32 Because we have the well water use enough	
109	33	Use clean water is better in term of health and sanitation
110	34	
111	35	Use with the well water, use the clean water for wash the clothes, towel and bedsheet
112	36	The room is clean, use for wash the towel, bedsheet and the guest will prefer the clean water more th
113	37	Clean water, the guest will be content, hygiene, everything will be clean
114	38	Clean water for use, hygiene the guest will be content
115	39 Water presure is too low, hight price and hight connection fees.	
116	40	Clean water, the guest will be content, hygiene, washing something is clean
117	41	Don't want to pump the water from the ground and it's hygiene
118	42	It's easy to use for cooking
119	43	Can use for general
120	44	Use clean water can clean the room and washing
121	45	Clean water has a good quality
122	46	Clean water, don't effect with the temple and the ground
123	47	Hygiene water, reduce the using of the ground water
124	48	Clean water, the room and everything are clean and don't get the rust
125	49	Clean water and hygiene
126	50	The well water is not clean, have more rust, the clean water is good and the room and everything are
127	51	For gernal use, the guest will be content, protect the ground will not collapse
128	52	Clean water, the room and everything are not dirty
129	53	Protect erosion of the ground and easy to use
130	54	Reduce using of ground water, don't effect to the health and everything is clean
131	55	It has a good quality and hygiene
132	56	Hygine, good for washing, the room is clean and not dirty
133	57	Reduce using of ground water and hygiene
134	58	Clean water and hygiene
135	59	Clean water and avoide the earthquake

SECTION 4: Water Use Awareness Survey		
S.N.	4.10 If No Reason	4.11 If Yes Reason
136	60	Clean water, the towel is not dirty and the guest will be content
137	61	Hygiene, easy to use and good cost
138	62	Clean water
139	63	The room and towel are not dirty and hygiene
140	64	Gain the profit, easy to manage, clean water and control through the right water rule
141	65	Clean water and hygiene
142	66	Clean water and hygiene
143	67	Clean water, hygiene and don't effect to health and other equipment
144	68	Cleaned water, not dirty, not smell, other equipment are clean and hygiene
145	69	Clean water and don't think about the break of the motor and other equipment
146	70	Use the clean water for the guest and hygiene
147	71	Clean water, other equipment are clean and request for discount for the city water
148	72	Clean water, don't effect to the health, easy for washing
149	73	Use both of the clean water and well water, the city water is clean and hygiene
150	74	Cannot use the well water and the water from the city is clean and hygiene
151	75	Clean water and don't effect to the temple
152	76	Easy to use and hygiene
153	77	Clean water and hygiene
154	78	Reduce the using of the ground water, hygiene and the guest will be content
155	79	The guest need the clean water, high hygiene and resist for other effecton
156	80	Good hygiene
157	81	Use the clean water can reduce the proken equipment in the bathroom, other equipment are clean ar
158	82	The city water produce through the international standard and protect the collapse of the ground in th
159	83	Clean water, easy to use and everything is not dirty
160	84	Easy to use, the room is clean and other equipment are not dirty
161	85	Clean water and the guest will be content
162	86	Easy to use, save time, save money the house and other equipment are clean
167	87	
168	88	Easy to use and access to clean water
169	89	Access to clean water and less expense
170	90	Clean water and the room is clean
171	91 Cost of connection fee is high & also water pipe	
172	92 Hight expense	
173	93 Cost of hight connection fee & price of water is high	
178	94 Expensive	
179	95 Cost is high for connection & price of water	
182	96	Easy to use and the room and other equipment are not dirty
184	97 Already have well water	
217	98	
220	99	Access to clean water and easy to use
221	100	Easy to use and clean
222	101	
229	102 Too expensive, low pressure at present & sometime no water	
230	103 The cost of connection & water are hight	
231	104	Use water pipe system is easy and clean
235	105	For supply good operation and quality
236	106	Use water supply system easy and good quality
237	107	Easy to use of water supply system
244	108	Use for the room, easy to use and hygiene
275	109	
276	110 Too much expense on connection & fee	
277	111 Expensive in connection fee	
280	112	Use water supply system better than borehole
219	113	Reduce of using borehole to use clean water system
232	114 More expensive than wing boreholes	
233	115	No idea, many people use boreholes

SECTION 4: Water Use Awareness Survey		
S.N.	4.10 If No Reason	4.11 If Yes Reason
212	11	Use the clean water have a hygiene to use
213	12	
214	13	Clean water and easy to use
215	14	
216	15	Need the clean water and save the ground water to be balance
245	16	Good quality, less expense for maintenance
246	17	Use in the kitchen room (the clean water doesn't have the rust)
247	18	Has a hygiene, have a standard water supply system and wash something is so clean
248	19	Clean water and good quality
249	20	Easy to use, have a hygiene and reduce the using of the ground water
250	21	Easy to manage the expense and clean water
251	22	Clean water and control by the right technical
252	23	Clean water
253	24 The price of the water is expensive	
254	25	
255	26	Clean water, easy to use and control by the good technical
256	27	Clean water
257	28	Clean water and hygiene
258	29	Clean water, easy to use and good price
259	30	Good for cook the food and wash the clothes
260	31	Good quality water
261	32	Necessary for cook the food
262	33	Clean water and hygiene
263	34	The clean water has control by the right technical
264	35	Clean water and easy to use
265	36	Hygiene water and easy to use
266	37	It's more hygiene than the ground water
267	38	Clean water, nice place and hygiene
268	39	Clean water, control by the right technical and hygiene
269	40	Easy to use and clean water Demand from the guest
5	1	
180	2 High cost for connection fee & also water price	Don't want to pump from the water ground, clean water and produce through the standard
181	3 Adding more cost to operation cost	
186	4 The quality is not as good as mine	
187	5 Add more expense & sometime low/no water	
188	6 Maybe quality is not good as mine	
226	7 High cost in connection & water price	
227	8 The connection fee is high	
228	9 The connection fee is too much	
270	10 I invest too much already with my system	
3	1	
4	2 Too expensive for connection a fee	Easy to use & clean water
6	3	
7	4 It's more expensive than my current system	The clean water hasn't the rust and the guest will be content
8	5 Too expensive	
9	6	it's safe water and virus free
10	7	Good quality
11	8 High cost	
12	9 Water system is expensive	
59	10 Too expensive & can't make any profit	
60	11	
61	12 Expensive	Good quality and reduce ground water use
62	13 Expensive including connection fee & price of water	
63	14	
64	15	Want to use the water with good quality
65	16	
66	17 Because the cost of city water system is expensive and not regular supply	
67	18 Connection fee is expensive, water fee is also expensive	
68	19 The expense for connection & supply is higher than the current system	
69	20 Too much expense and now I don't need to pay for water	
70	21 The price of the water is high	
71	22 Too expensive	
72	23 High expense and can't make any profit	
73	24 Add more expense and can't make any profit	

SECTION 4: Water Use Awareness Survey		
S.N.	4.10 If No Reason	4.11 If Yes Reason
74	25 Very expensive	
75	26	Access to clean water & easy in use
189	27 Hight expense	
190	28 Low pressure & high price in connection	
191	29 Very expensive	
192	30 More expensive, this could lead to on the profit	
193	31 Cost is high	
194	32 Too expensive for price & connection fee	
223	33 Too expensive	
234	34	Clean water and produce through the standard
273	35	Easy to use and clean
274	36 Company invested too much on water system	
1	37	Access clean water & easy to use
2	38 Too expensive	
57	39	Access to cleaned water, friendly environmental for the next generation
58	40	Easy to use and have clean water

S.N.		SECTION 5: Water Quality				Foot Notes
		EC (µS/cm)	pH	Fe (mg/L)	Mn (mg/L)	
						Put important notes
13	1	120	5.00	0.2	0	Boreholes can not be opened to conduct SWL and DWL measurement
14	2	230	5.10	5	0	Boreholes can not be opened to conduct SWL and DWL measurement
15	3	240	5.50	5	0	
16	4	140	5.80	5	0	
17	5	180	5.85	1	0	
18	6	340	5.55	0.5	0	
19	7	190	4.80	1	0	
20	8	110	5.23	5	0	
21	9	170	5.10	1	0	
22	10	310	6.65	0.2	0	
23	11	250	4.59	5	0	
25	12	290	4.42	0.5	0.5	
26	13	240	6.80	5	0.5	Static and dynamic water levels at the dry season were recorded
27	14	240	5.80	2	0	
28	15	330	5.20	2	0	Static and dynamic water levels at the dry season were recorded
29	16	420	4.50	5	0	
30	17	370	6.00	5	0	
31	18	440	5.80	5	0	
32	19	170	5.33	5	0	
33	20	250	7.20	10	0.5	
34	21	300	6.50	0	0	Don't know about the borehole depths due to the responsible manager just come to manage
35	22	220	4.10	0.5	0	
36	23	240	4.15	2	0	Don't know about the borehole depths due to the responsible manager just come to manage
37	24	320	4.10	5	0	Well can not be opened for static and dynamic water level measurements
38	25	240	4.60	5	0	
39	26	170	4.30	5	0	Don't know about the well depth
40	27	190	4.20	1	0	
41	28	210	4.70	5	0	
42	29	230	4.80	2	0	Well can not be opened for static and dynamic water level measurements
43	30	420	5.30	0.2	0	
44	31	140	4.80	5	0	
45	32	330	5.40	1	0	
46	33	180	5.10	5	0	Well can not be opened for static and dynamic water level measurements
47	34	40	4.63	2	0	Well can not be opened for static and dynamic water level measurements
48	35	280	7.02	10	0	Well can not be opened for static and dynamic water level measurements
49	36	50	4.99	0.5	0	Don't know about the well depth
50	37	50	5.40	1	0	
51	38	50	5.22	0.5	0	
52	39	270	4.61	2	0	
53	40	90	4.99	2	0	
54	41	40	5.27	1	0	Well can not be opened for static and dynamic water level measurements
55	42	40	5.04	0.2	0	
76	43	340	4.52	0.2	0	Well can not be opened for static and dynamic water level measurements
77	44	70	4.59	0.5	0	Well can not be opened for static and dynamic water level measurements
107	45	310	5.62	0.2	0	Well can not be opened for static and dynamic water level measurements
163	46	210	4.70	2	0	
164	47	190	5.20	2	0	
165	48	190	5.10	2	0	
166	49	210	4.90	5	0.5	
174	50	170	5.50	2	0	
175	51	220	4.20	5	0.5	
176	52	190	4.40	2	0	
177	53	240	4.70	2	0	
183	54	50	5.70	0.2	0	
185	55	210	5.50	2	0	
195	56	390	4.90	2	0	Well can not be opened for static and dynamic water level measurements
196	57	340	5.70	2	0	
197	58	390	5.60	5	0.5	
198	59	320	5.80	1	0	
199	60	190	5.80	2	0	
200	61	210	5.50	2	0	
201	62	210	5.80	2	0	
218	63	50	6.21	0.5	0	Well can not be opened for static and dynamic water level measurements
272	64	210	4.20	2	0	
224	65	150	4.70	2	0	
225	66	320	4.10	2	0	
278	67	50	5.60	0	0	
279	68	50	4.10	2	0	Well can not be opened for static and dynamic water level measurements

S.N.	SECTION 5: Water Quality				Foot Notes
	EC (µS/cm)	pH	Fe (mg/L)	Mn (mg/L)	
238	69	70	4.20	5	0 Don't know the year of installation
239	70	200	7.00	10	0.5
240	71	230	6.20	10	0
241	72	110	4.60	0.2	0
242	73	220	5.20	5	0
243	74	600	6.30	1	0
271	75	240	4.10	2	0.5 Not enough time to measure dynamic water level
24	1	30	5.21	0.2	0 Well can not be opened for static and dynamic water level measurements
56	2	100	4.80	2	0
78	3	230	6.20	2	0
79	4	190	4.10	5	0 Don't know about the well depth
80	5	370	6.80	5	0
81	6	320	6.20	2	0 Well can not be opened for static and dynamic water level measurements
82	7	280	5.20	5	0 Well can not be opened for static and dynamic water level measurements
83	8	160	5.80	5	0
84	9	310	5.14	10	0 Well can not be opened for static and dynamic water level measurements
85	10	290	5.06	0.5	0 Don't know about the well depth, and well can't be opened for static and dynamic water level measurements
86	11	600	6.74	10	0.5 Well can not be opened for static and dynamic water level measurements
87	12	280	6.40	0.5	10
88	13	70	5.48	0.5	0 No space to conduct WSL and WDL measurements
89	14	80	6.22	0.5	0 Well can not be opened for static and dynamic water level measurements
90	15	230	6.15	0.5	0 No space to conduct WSL and WDL measurements
91	16	320	4.80	10	0.5
92	17	380	4.04	5	0 No space to conduct WSL and WDL measurements
93	18	100	4.95	2	0 No space to conduct WSL and WDL measurements
94	19	30	5.23	0.2	0 No space to conduct WSL and WDL measurements
95	20	120	5.28	2	0 No space to conduct WSL and WDL measurements
96	21	230	4.75	10	0 No space to conduct WSL and WDL measurements
97	22	220	4.57	1.2	0.5 No space to conduct WSL and WDL measurements
98	23	80	4.96	0.5	0 No space to conduct WSL and WDL measurements
99	24	130	4.80	5	0 No space to conduct WSL and WDL measurements
100	25	150	5.04	0.5	0 No space to conduct WSL and WDL measurements
101	26	40	5.14	0.2	0
102	27	100	7.74	0.2	0
103	28	70	4.99	1	0 No space to conduct WSL and WDL measurements
104	29	40	5.82	0.5	0 No space to conduct WSL and WDL measurements
105	30	80	4.75	1	0 No space to conduct WSL and WDL measurements
106	31	30	5.09	0.5	0
108	32	30	5.52	0.2	0 Can not conduct dynamic WLM
109	33	60	5.10	0.5	0 No space to conduct WSL and WDL measurements
110	34	30	4.91	0.2	0 No space to conduct WSL and WDL measurements
111	35	70	4.81	2	0 No space to conduct WSL and WDL measurements
112	36	230	4.68	0.5	0 No space to conduct WSL and WDL measurements
113	37	30	5.20	0.5	0 No space to conduct WSL and WDL measurements
114	38				0 No space to conduct WSL and WDL measurements Pumping to the above storage tank and no space to collect
115	39	90	4.94	1	0 No space to conduct WSL and WDL measurements
116	40	50	4.90	3.5	0 Don't know about the borehole depths due to the responsible manager just come to manage, and no space to c
117	41	110	5.06	0.5	0 No space to conduct WSL and WDL measurements
118	42	230	4.69	8	0 No space to conduct WSL and WDL measurements
119	43	140	4.79	5	0 No space to conduct WSL and WDL, Don't know about the borehole depths due to the responsible manager ju
120	44	210	4.36	0.5	0 No space to conduct WSL and WDL measurements
121	45	30	5.00	0.1	0 No space to conduct WSL and WDL measurements
122	46	40	5.07	2	0 No space to conduct WSL and WDL measurements
123	47	200	4.65	2	0 No space to conduct WSL and WDL measurements
124	48	100	4.91	0.5	0
125	49	160	5.31	2	0 No space to conduct WSL and WDL measurements
126	50	110	5.10	4	0 Well is not applicable
127	51	100	4.87	1	0 No space to conduct WSL and WDL measurements
128	52	800	4.24	8	0 No space to conduct WSL and WDL measurements
129	53	40	5.01	0.5	0 No space to conduct WSL and WDL measurements
130	54	320	4.53	5	0 Don't know about the well depth, No space to conduct WSL and WDL measurements
131	55	100	5.11	3	0 Don't know about the well depth, No space to conduct WSL and WDL measurements
132	56	260	4.50	5	0 Don't know about the well depth, No space to conduct WSL and WDL measurements
133	57	400	4.33	0.2	0 No space to conduct WSL and WDL measurements
134	58	80	5.11	2	0 No space to conduct WSL and WDL measurements
135	59	320	4.38	5	0 No space to conduct WSL and WDL measurements

S.N.	SECTION 5: Water Quality				Foot Notes
	EC (µS/cm)	pH	Fe (mg/L)	Mn (mg/L)	
136	60	280	4.25	9	0 No space to conduct WSL and WDL measurements
137	61	550	6.05	0.1	0 Difficult to conduct WDL due to time constraint from the owner
138	62	90	5.15	3	0 No space to conduct WSL and WDL measurements
139	63	280	4.19	3	0 No space to conduct WSL and WDL measurements
140	64	90	6.34	10	0 No space to conduct WSL and WDL measurements
141	65	120	4.89	1	0 No space to conduct WSL and WDL measurements
142	66	90	4.79	1	0 No space to conduct WSL and WDL measurements
143	67	230	4.13	2	0 No space to conduct WSL and WDL measurements
144	68	70	4.93	0.5	0 No space to conduct WSL and WDL measurements
145	69	50	5.04	0.3	0 No space to conduct WSL and WDL measurements
146	70	520	4.40	9	0 No space to conduct WSL and WDL measurements
147	71	390	4.54	9	0 Don't know about the well depth, No space to conduct WSL and WDL measurements
148	72	580	4.52	5	0 No space to conduct WSL and WDL measurements
149	73	300	4.34	0.1	0 No space to conduct WSL and WDL measurements
150	74	820	4.19	10	0 No space to conduct WSL and WDL measurements
151	75	90	4.19	2	0 No space to conduct WSL and WDL measurements
152	76	550	5.00	10	0 No space to conduct WSL and WDL measurements
153	77	410	4.22	0.1	0 No space to conduct WSL and WDL measurements
154	78	80	5.05	0.3	0 Don't know about the borehole depths due to the responsible manager just come to manage No space to conduct
155	79	240	4.35	4	0 No space to conduct WSL and WDL measurements
156	80	20	5.30	0.1	0 No space to conduct WSL and WDL measurements
157	81	430	4.70	0.1	0 No space to conduct WSL and WDL measurements
158	82	470	4.10	0.2	0 No space to conduct WSL and WDL measurements
159	83	100	4.50	3	0 No space to conduct WSL and WDL measurements
160	84	330	4.66	0.2	0 No space to conduct WSL and WDL measurements
161	85	400	4.22	0.2	1 No space to conduct WSL and WDL measurements
162	86	750	6.53	0.5	1 No space to conduct WSL and WDL measurements
167	87	150	5.10	5	0
168	88	240	4.90	5	0
169	89	190	4.70	5	0.5
170	90	100	4.50	2	0 No space to conduct WSL and WDL measurements
171	91	250	4.70	2	0
172	92	190	4.90	2	0
173	93	290	4.70	2	0 Borehole can not be opened to conduct WSL and WDL measurements
178	94	150	4.80	2	0
179	95	250	4.50	2	0
182	96	60	5.55	10	0
184	97	30	5.00	0.6	0 No space to conduct WSL and WDL measurements
217	98	50	6.20	0.7	0 No space to conduct WSL and WDL measurements
220	99	280	4.00	5	0.5
221	100	310	4.80	5	0.5
222	101	160	4.10	2	0 Difficult to conduct WDL due to time constraint from the owner
229	102	190	4.10	5	0.5
230	103	250	4.60	5	0.5
231	104	30	5.68	0.2	0 No space to conduct WSL and WDL measurements
235	105	90	5.10	1	0 No space to conduct WSL and WDL measurements
236	106	310	5.35	7	0 No space to conduct WSL and WDL measurements
237	107	290	4.60	1	0 No space to conduct WSL and WDL measurements
244	108	120	4.96	2	0
275	109	320	4.50	5	0.5
276	110	260	4.50	5	0.5
277	111	270	4.00	5	0.5
280	112	300	4.50	2	0 No space to conduct WSL and WDL measurements
219	113	40	6.31	1	0 No space to conduct WSL and WDL measurements
232	114	80	4.86	0.2	0 No space to conduct WSL and WDL measurements
233	115	190	4.60	5	0 No space to conduct WSL and WDL measurements
202	1	780	5.65	0.2	0 No space to conduct WSL and WDL measurements
203	2	120	4.85	3	0 No space to conduct WSL and WDL measurements
204	3	680	6.09	10	3 No space to conduct WSL and WDL measurements
205	4	220	5.14	4	0 No space to conduct WSL and WDL measurements
206	5	40	5.12	0.5	0 Don't know about the well depth, No space to conduct WSL and WDL measurements
207	6	50	5.07	0.3	0 No space to conduct WSL and WDL measurements
208	7	40	5.32	0.2	0 No space to conduct WSL and WDL measurements
209	8	20	5.08	0.2	0 No space to conduct WSL and WDL measurements
210	9	30	4.87	0.5	0 No space to conduct WSL and WDL measurements
211	10	90	5.23	0.7	0 No space to conduct WSL and WDL measurements

S.N.	SECTION 5: Water Quality				Foot Notes
	EC (µS/cm)	pH	Fe (mg/L)	Mn (mg/L)	
					Put important notes
212	11	30	5.26	0.1	0 No space to conduct WSL and WDL measurements
213	12	50	5.25	0.2	0 No space to conduct WSL and WDL measurements
214	13	50	4.95	0.3	0 No space to conduct WSL and WDL measurements
215	14	50	5.16	0.5	0 No space to conduct WSL and WDL measurements
216	15	200	4.71	0.5	0 No space to conduct WSL and WDL measurements
246	16	20	4.78	0.5	0 No space to conduct WSL and WDL measurements
246	17	30	5.20	0.2	0 No space to conduct WSL and WDL measurements
247	18	220	4.57	8	0
248	19	50	4.81	0.3	0
249	20	80	5.02	0.2	0 No space to conduct WSL and WDL measurements
250	21	40	5.11	0.1	0 No space to conduct WSL and WDL measurements
251	22	20	5.20	0.7	0
252	23	50	4.88	0.6	0
253	24	50	5.25	0.3	0 No space to conduct WSL and WDL measurements
254	25	80	4.84	8	0 No space to conduct WSL and WDL measurements
255	26	220	4.45	6	0 No space to conduct WSL and WDL measurements
256	27	60	5.07	3	0 No space to conduct WSL and WDL measurements
257	28	60	5.13	0.1	0 Don't know about the well depth
258	29	60	4.83	7	0 No space to conduct WSL and WDL measurements
259	30	280	4.55	5	0 Don't know about the borehole depths and casing diameter, No space to conduct WSL and WDL measurements
260	31	260	4.30	0.6	0 No space to conduct WSL and WDL measurements
261	32	230	4.51	10	0 No space to conduct WSL and WDL measurements
262	33	50	5.02	2	0 No space to conduct WSL and WDL measurements
263	34	80	5.16	6	0 No space to conduct WSL and WDL measurements
264	35	300	4.54	10	0 No space to conduct WSL and WDL measurements
265	36	190	4.70	7	0 No space to conduct WSL and WDL measurements
266	37	100	4.87	2	0 No space to conduct WSL and WDL measurements
267	38	280	4.70	2	0 No space to conduct WSL and WDL measurements
268	39	390	4.19	10	0 No space to conduct WSL and WDL measurements
269	40	70	5.14	0.5	0 No space to conduct WSL and WDL measurements
5	1	30	5.00	0.5	0 No space to conduct WSL and WDL measurements
180	2	180	4.70	2	0
181	3	190	4.90	2	0
186	4	190	5.90	2	0
187	5	210	5.80	2	0 Can not do dynamic water level measurement
188	6	230	5.90	2	0 Borehole can not be opened to conduct WSL and WDL measurements
226	7	190	4.80	2	0
227	8	150	4.70	2	0
228	9	190	4.60	2	0
270	10	210	4.10	2	0
3	1	240	4.10	10	0.5 No space to conduct WSL and WDL measurements
4	2	420	4.10	5	2 No space to conduct WSL and WDL measurements
6	3	440	4.14	8	0 No space to conduct WSL and WDL measurements
7	4	120	4.60	5	0 If connection fee is low and I will intention to the govt. water supply system
8	5	340	4.10	5	0
9	6	290	4.90	3	0
10	7	330	5.70	5	0
11	8	200	6.34	2	0 No space to conduct WSL and WDL measurements
12	9	30	4.95	1	0 No space to conduct WSL and WDL measurements
59	10	240	4.90	0	0
60	11	230	4.20	0	0 No space to conduct WSL and WDL measurements
61	12	190	4.90	5	0 No space to conduct WSL and WDL measurements
62	13	340	4.80	5	0 No space to conduct WSL and WDL measurements
63	14	420	4.50	1	0
64	15	280	6.50	3	0
65	16	430	5.60	2	0
66	17	240	5.10	3	0 No space to conduct WSL and WDL measurements
67	18	240	4.80	5	0 No space to conduct WSL and WDL measurements
68	19	320	4.00	10	5 No space to conduct WSL and WDL measurements
69	20	520	4.10	5	0.5 No space to conduct WSL and WDL measurements
70	21	280	4.80	5	0 No space to conduct WSL and WDL measurements
71	22	480	4.00	5	0.5
72	23	370	4.70	5	0
73	24	390	4.80	5	0.5

S.N.	SECTION 5: Water Quality				Foot Notes		
	EC (µS/cm)	pH	Fe (mg/L)	Mn (mg/L)			
74	25	410	4.50	5	0	Put important notes	
75	26	320	4.90	5	0.5		
189	27	310	5.20	5	0.5		No space to conduct WSL and WDL measurements
190	28	410	4.90	5	1		No space to conduct WSL and WDL measurements
191	29	190	5.50	5	0.5		No space to conduct WSL and WDL measurements
192	30	310	4.70	5	1		No space to conduct WSL and WDL measurements
193	31	280	5.20	5	0.5		No space to conduct WSL and WDL measurements
194	32	340	4.80	5	0		No space to conduct WSL and WDL measurements
223	33	210	4.40	5	0.5		
234	34	50	5.15	2	0		No space to conduct WSL and WDL measurements
273	35	170	4.10	2	0		
274	36	140	4.00	2	0		
1	37	240	4.10	5	0		No space to conduct WSL and WDL measurements
2	38	280	6.50	5	0		No space to conduct WSL and WDL measurements
57	39	150	4.20	2	0		
58	40	190	4.20	2	0		

Table 2.3 Result of Field Water Quality Tests

Name	GPS coordinates		Well Type	Depth	Water Quality				
	X	Y			EC	pH	Fe	Mn	NH4-N
ES-1	375911	1472866	DTWSH	10.0	60	5.04	0.2	0	0.1
ES-2	376309	1472900	HPW	30.0	50	5.48	0	0	0.1
ES-3	376994	1473001	ODWL	24.0	1350	5.93	0	0	0.1
ES-4	378004	1473144	HPW	30.0	40	5.42	0	0	0.1
ES-5	378864	1473251	HPW	30.0	30	5.43	0	0	0.1
ES-6	379732	1473367	DTWSH	25.0	30	5.23	0.2	0	0.2
ES-7	380391	1473469	HPW	8.0	150	5.53	1.5	0	0.5
ES-8	380637	1473371	HPW	-	20	5.51	0.2	0	0.2
ES-9	380904	1473295	HPW	25.0	40	5.5	5	0	0.2
ES-10	381176	1473224	HPW	8.0	30	5.68	5	0	0.2
ES-11	381869	1472999	HPW	30.0	30	5.51	0	0	0.1
Average				22.0	166	5.48	1.10	0.00	0.17
WS-1	365210	1482661	DTWSH	15.0	110	5.11	0.5	0	0.1
WS-2	365633	1482111	HPW	18.0	140	5.52	2	0	0.1
WS-3	366197	1481317	HPW	12.0	70	5.81	0.7	0	0.2
WS-4	366401	1481111	ODWL	15.0	230	6	0.8	0	0.2
WS-5	367407	1479842	ODWL	4.0	140	6.28	0.1	0	0.1
WS-6	368032	1477876	HPW	30.0	120	5.81	5	0	0.2
WS-7	368105	1478857	HPW	25.0	70	5.62	0.5	0	0.2
WS-8	368535	1477766	HPW	20.0	100	6.32	8	0	0.2
WS-9	368715	1478064	HPW	30.0	80	5.67	5	0	0.2
WS-10	369148	1477606	HPW	22.0	80	5.28	0	0	0.1
WS-11	369444	1477129	HPW	12.0	80	5.43	0.8	0	0.1
WS-12	369727	1476788	DTWSH	24.0	50	5.39	0.1	0	0.2
WS-13	370047	1476454	HPW	30.0	60	5.46	0.7	0	0.1
WS-14	370078	1476418	ODWL	20.0	1130	6	0	0	0.1
WS-15	370562	1475854	HPW	30.0	60	5.78	0.8	0	0.2
WS-16	371046	1475333	DTWSH	28.0	90	5.65	5	0	0.2
WS-17	371992	1474370	HPW	28.0	50	5.58	0	0	0
WS-18	373197	1472891	ODWL	5.0	710	6.42	0	0	0.1
Average				20.4	187	5.73	1.67	0.00	0.14
PK-1	371740	1468996	ODWL	10.0	330	4.14	0	1	0.2
PK-2	372375	1468580	HPW	8.5	420	4.44	0.1	0.5	0.1
PK-3	372493	1468959	HPW	-	630	5.08	0	0	0.1
PK-4	372595	1468716	HPW	5.0	740	5.5	2	0.5	0.2
PK-5	372616	1468779	HPW	40.0	460	5.16	0.2	0	0.2
PK-6	372618	1468794	HPW	30.0	180	4.14	0.2	0	0.1
PK-7	372692	1468458	HPW	40.0	680	5.1	0.2	0	0.2
Average				22.3	491	4.79	0.39	0.29	0.16

Note DTWSH : Deep tube well shallow (less than 50m)
 HPW : Hand pump well (tube well with a hand pump)
 ODWL : Opend dug well with concrete lining

Supporting Report

Chapter 3

Current Status of Groundwater Use

Chapter 3. Current Status of Groundwater Use

SR 3-1(1) SRWSA Production Wells

SR 3-1(2) Operating Conditions of SRWSA Production Wells

Table 3.1 Operating Conditions of SRWSA Production Wells

SR 3-2(1) Survey Results of Core Samples in Khvein and Kravan Sites, and Observation Result of Core Samples of Angkor Ruins

SR 3-2(2) New Construction of Khvein and Kravan Monitoring Wells

SR 3-2(3) Groundwater Levels of Khvein and Kravan Monitoring Wells

Figure 3.2.3 Groundwater Levels of khvein and Kravan Monitoring Wells

SR 3-3(1) Data of Existing Monitoring Wells Constructed by “the Study on Water Supply System for Siem Reap Region in Cambodia by JICA, March 2000”

Figure 3.3.1 Groundwater Level Fluctuation of Existing Monitoring Wells

Chapter 3. Current Status of Groundwater Use

SR 3-1(1) SRWSA Production Wells

SR 3-1-1 Analysis on Influence by Pumping of SRWSA Production Well

The monitoring data for the period (March 2007 to February 2008) that confirmed reliability by the relationship between manual measurement data and automatic recording ones in the same monitoring well were used. Furthermore, to avoid influence of rainfall, the data for the period of without rainfall in the dry season were selected. As a result of selection, to check the influence by pumping of SRWSA production wells against environment, the relationship between the operating conditions of SRWSA wells and monitoring data of WT-4 well in the same days (December 14 – 16, 2010) were examined.

Operating condition of SRWSA production wells on December 14 -16, 2007 is shown in Figure 3-1.

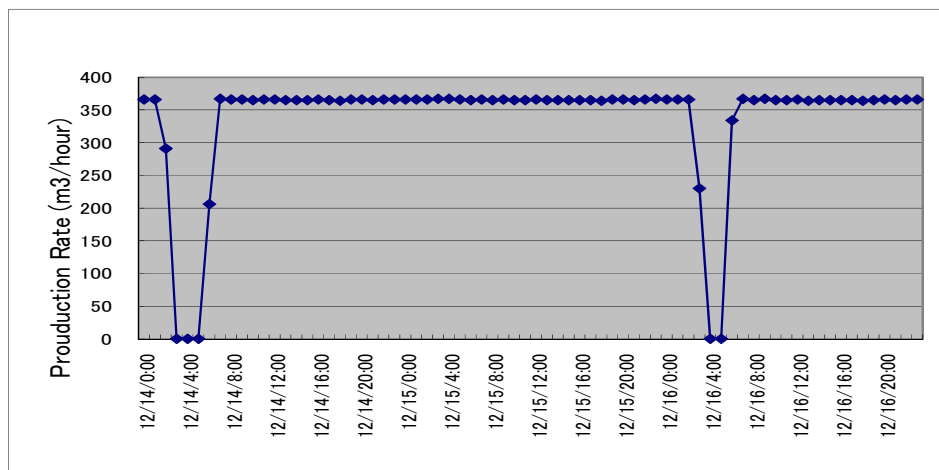


Figure 3.1 Operating Conditions of SRWSA Production Wells (December 14- 16, 2007)

Operating Conditions of SRWSA production wells are as follows:

Day	Operating/Non- operating hours	Pumping rate
Dec. 14, 2007	Full operating (0:00-1:00, 7:00-23:00) Halting of pumping up (3:00 – 5:00) Decrease of pumping rate (2:00, 6:00)	366 – 367 m ³ /hour (Total: 7,444 m ³ /day)
Dec. 15, 2007	24 hours: full operating	365 – 367 m ³ /hour (Total: 8,775m ³ /day)
Dec. 16, 2007	Full operating (0:00-2:00, 7:00-23:00) Halting of pumping up (4:00 – 5:00) Decrease of pumping rate (3:00, 6:00)	364 – 366 m ³ /hour (Total: 7,873 m ³ /day)

Comparison of daily fluctuation data of groundwater level within 24 hours for three days (December 14 – 16, 2007) is shown in Figure 3-2.

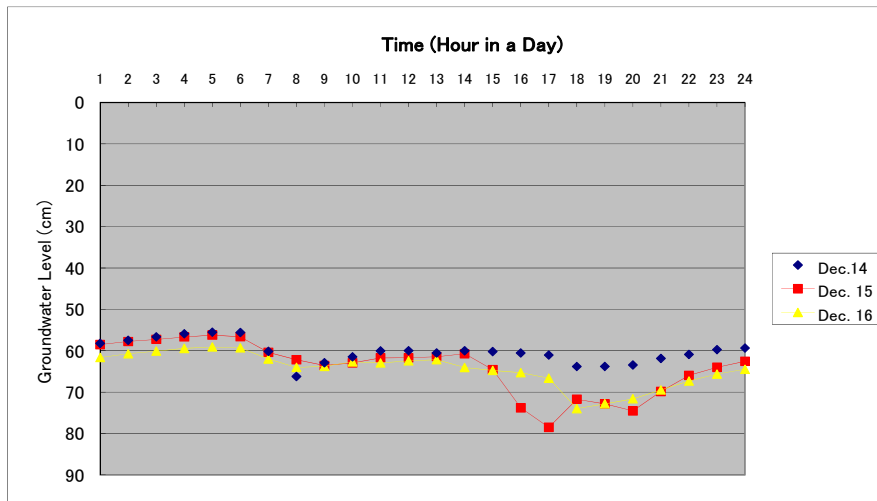


Figure 3.2 Comparison of Daily Fluctuation Data of Groundwater Level for Three Days (December 14 – 16, 2007)

Daily fluctuation pattern of Figure 3-2 makes clear in the followings:

- Operating condition in December 14, 2007 has halting hours of pumping up during three hours of 3:00 to 5:00 with decreasing hours of pumping volume in 2:00 and 6:00, and also, the conditions in December 16, 2007 has halting hours of pumping up during two hours of 4:00 to 5:00 with decreasing hours of 3:00 and 6:00. However, fluctuation tendency of groundwater level is the same as that of Dec. 15 with fully pumping up for 24 hours. If the influence of pumping of SRWSA wells occurs, water level at the time of Dec. 15, 3:00 to 5:00 should be lower compared with those on Dec. 14 and 16.
- Thus, the lowering of groundwater level, namely interference radius of pumping, by pumping up of SRWSA production wells is considered not to influence against monitored groundwater level of WT-4.

Table 3.1 (1) Operating conditions of SRWSA Production Wells

DATE: 01/08/2008

Daily Report

Hour	02EF01 RAW WATER INFLOW m ³	03EF01 BACKWASH WATER FLOW m ³	03EF02 SURFACE WASH WATER FLOW m ³	05EF01 WATER OUTFLOW m ³	07EF01 LIME DOSING FLOW l	07CE01 No.1 CHLORINE SYSTEM kg	07CE02 No.2 CHLORINE SYSTEM kg	07CE03 No.3 CHLORINE SYSTEM kg	09LOV03W POWER RECEIVING WATT HOUR kWh
0	371	0	0	198	76	0.00	0.00	0.03	130
1	313	0	0	182	67	0.00	0.00	0.03	50
2	0	0	0	168	0	0.00	0.00	0.02	10
3	0	0	0	160	0	0.00	0.00	0.03	60
4	0	0	0	167	0	0.00	0.00	0.02	10
5	0	0	0	216	0	0.00	0.01	0.02	10
6	76	0	0	370	13	0.00	0.02	0.03	100
7	373	0	0	481	74	0.00	0.00	0.04	110
8	371	0	0	444	74	0.00	0.00	0.04	110
9	371	0	0	423	74	0.00	0.00	0.03	150
10	371	0	0	419	73	0.00	0.00	0.03	100
11	371	0	0	401	73	0.00	0.00	0.03	110
12	371	0	0	390	73	0.00	0.00	0.03	140
13	371	0	0	377	73	0.00	0.00	0.03	80
14	370	0	0	353	73	0.00	0.00	0.03	130
15	370	0	0	360	73	0.00	0.00	0.03	120
16	370	177	37	358	74	0.00	0.00	0.03	100
17	370	0	0	383	74	0.00	0.00	0.03	140
18	370	0	0	412	73	0.00	0.00	0.03	90
19	369	0	0	380	73	0.00	0.00	0.03	130
20	371	0	0	366	73	0.00	0.00	0.03	130
21	371	0	0	336	73	0.00	0.00	0.03	70
22	371	0	0	294	73	0.00	0.00	0.03	140
23	371	0	0	244	73	0.00	0.00	0.03	80
Max	373	177	37	481	76	0.00	0.02	0.04	150
Min	0	0	0	160	0	0.00	0.00	0.02	10
Ave	294	7	2	328	58	0.00	0.00	0.03	96
Total	7,062	177	37	7,882	1,402	0.00	0.03	0.71	2,300

Table 3.1 (2) Operating Conditions of SRWSA Production Wells

DATE: 01/09/2008

Daily Report

	02EF01 RAW WATER INFLOW	03EF01 BACKWASH WATER FLOW	03EF02 SURFACE WASH WATER FLOW	05EF01 WATER OUTFLOW	07EF01 LIME DOSING FLOW	07CE01 No.1 CHLORINE SYSTEM	07CE02 No.2 CHLORINE SYSTEM	07CE03 No.3 CHLORINE SYSTEM		09LOV03W POWER RECEIVING WATT HOUR
Hour	m3	m3	m3	m3	l	kg	kg	kg		kWh
0	372	0	0	192	73	0.00	0.00	0.03		80
1	371	0	0	169	73	0.00	0.00	0.03		120
2	372	0	0	150	73	0.00	0.00	0.03		60
3	372	0	0	143	73	0.00	0.00	0.03		70
4	372	0	0	157	73	0.00	0.00	0.03		120
5	371	0	0	216	73	0.00	0.00	0.03		70
6	371	0	0	361	73	0.00	0.00	0.03		100
7	371	0	0	479	69	0.00	0.00	0.03		140
8	370	0	0	472	69	0.00	0.00	0.03		140
9	371	0	0	431	32	0.00	0.00	0.03		80
10	369	0	0	409	75	0.00	0.00	0.03		150
11	371	0	0	398	75	0.00	0.00	0.03		90
12	370	0	0	383	69	0.00	0.00	0.03		120
13	370	0	0	390	73	0.00	0.00	0.04		140
14	371	0	0	370	72	0.00	0.00	0.04		70
15	370	0	0	368	72	0.00	0.00	0.03		140
16	370	0	0	394	71	0.00	0.00	0.03		100
17	371	0	0	405	71	0.00	0.00	0.03		110
18	370	0	0	422	71	0.00	0.00	0.03		150
19	370	0	0	394	70	0.00	0.00	0.04		70
20	371	0	0	353	70	0.00	0.00	0.03		140
21	372	0	0	347	70	0.00	0.00	0.03		100
22	371	0	0	299	70	0.00	0.00	0.03		90
23	372	0	0	251	70	0.00	0.00	0.03		130
Max	372	0	0	479	75	0.00	0.00	0.04		150
Min	369	0	0	143	32	0.00	0.00	0.03		60
Ave	371	0	0	331	70	0.00	0.00	0.03		108
Total	8,901	0	0	7,953	1,680	0.00	0.00	0.75		2,580

Table 3.1 (3) Operating Conditions of SRWSA Production Wells

DATE: 05/07/2010

Daily Report

Hour	02EF01 RAW WATER INFLOW m3	03EF01 BACKWASH WATER FLOW m3	03EF02 SURFACE WASH WATER FLOW m3	05EF01 WATER OUTFLOW m3	07EF01 LIME DOSING FLOW l	07CE01 No.1 CHLORINE SYSTEM kg	07CE02 No.2 CHLORINE SYSTEM kg	07CE03 No.3 CHLORINE SYSTEM kg	09LOV03W POWER RECEIVING WATT HOUR kWh
0	388	0	0	287	138	0.00	1.15	0.00	70
1	89	0	0	232	30	0.00	1.14	0.02	100
2	0	0	0	214	0	0.00	1.14	0.02	10
3	0	0	0	178	0	0.00	1.14	0.03	0
4	315	0	0	130	99	0.00	1.15	0.03	100
5	389	0	0	362	137	0.00	1.15	0.03	150
6	389	0	2	553	136	0.00	1.15	0.03	150
7	387	67	8	568	135	0.00	1.15	0.04	120
8	388	0	0	339	110	0.00	1.15	0.03	100
9	388	0	0	516	138	0.00	1.15	0.04	150
10	387	0	0	507	135	0.00	1.16	0.03	160
11	387	0	0	507	135	0.00	1.15	0.04	130
12	388	0	0	229	134	0.00	1.15	0.03	90
13	387	0	0	519	134	0.00	1.15	0.02	160
14	387	0	0	507	134	0.00	1.15	0.00	150
15	387	0	0	482	133	0.00	1.16	0.00	160
16	388	0	0	371	133	0.00	1.15	0.00	80
17	386	0	0	395	133	0.00	1.15	0.00	140
18	387	0	0	529	134	0.00	1.15	0.00	150
19	387	0	0	508	134	0.00	1.15	0.00	160
20	387	0	0	430	133	0.00	1.15	0.00	100
21	388	0	0	265	133	0.00	1.14	0.00	110
22	387	0	0	454	132	0.00	1.14	0.00	160
23	388	0	0	389	132	0.00	1.14	0.00	150
Max	389	67	8	568	138	0.00	1.16	0.04	160
Min	0	0	0	130	0	0.00	1.14	0.00	0
Ave	340	3	0	395	116	0.00	1.15	0.02	119
Total	8,154	67	10	9,471	2,792	0.00	27.56	0.39	2,850

Table 3.1 (4) Operating Conditions of SRWSA Production Wells

DATE: 05/08/2010

Daily Report

Hour	02EF01 RAW WATER INFLOW m ³	03EF01 BACKWASH WATER FLOW m ³	03EF02 SURFACE WASH WATER FLOW m ³	05EF01 WATER OUTFLOW m ³	07EF01 LIME DOSING FLOW l	07CE01 No.1 CHLORINE SYSTEM kg	07CE02 No.2 CHLORINE SYSTEM kg	07CE03 No.3 CHLORINE SYSTEM kg	09LOV03W POWER RECEIVING WATT HOUR kWh
0	389	0	0	313	131	0.00	1.14	0.00	80
1	388	0	0	258	126	0.00	1.14	0.00	130
2	389	0	0	253	142	0.00	1.15	0.00	100
3	389	0	0	232	143	0.00	1.14	0.00	80
4	388	0	0	256	142	0.00	1.15	0.00	150
5	388	0	0	355	141	0.00	1.15	0.02	80
6	388	0	0	530	140	0.00	1.15	0.04	150
7	388	0	0	566	140	0.00	1.15	0.03	150
8	386	61	13	549	140	0.00	1.16	0.04	160
9	387	16	0	542	139	0.00	1.14	0.04	160
10	387	0	0	526	123	0.00	1.15	0.03	150
11	388	0	0	491	135	0.00	1.14	0.02	100
12	388	0	0	459	132	0.00	1.14	0.00	150
13	386	0	0	470	132	0.00	1.14	0.00	160
14	386	0	0	465	131	0.00	1.14	0.00	150
15	384	0	0	443	129	0.00	1.14	0.00	100
16	388	0	0	462	129	0.00	1.14	0.00	160
17	387	0	0	490	129	0.00	1.14	0.00	160
18	386	72	12	497	129	0.00	1.14	0.00	120
19	387	0	0	457	125	0.00	1.15	0.00	120
20	387	0	0	457	123	0.00	1.14	0.00	160
21	387	0	0	456	129	0.00	1.14	0.00	150
22	388	0	0	402	129	0.00	1.14	0.00	80
23	387	0	0	305	129	0.00	1.15	0.00	150
Max	389	72	13	566	143	0.00	1.16	0.04	160
Min	384	0	0	232	123	0.00	1.14	0.00	80
Ave	387	6	1	426	133	0.00	1.14	0.01	131
Total	9,296	149	25	10,234	3,188	0.00	27.46	0.22	3,150

Table 3.1 (5) Operating Conditions of SRWSA Production Wells

DATE: 05/09/2010

Daily Report

Hour	02EF01 RAW WATER INFLOW m3	03EF01 BACKWASH WATER FLOW m3	03EF02 SURFACE WASH WATER FLOW m3	05EF01 WATER OUTFLOW m3	07EF01 LIME DOSING FLOW l	07CE01 No.1 CHLORINE SYSTEM kg	07CE02 No.2 CHLORINE SYSTEM kg	07CE03 No.3 CHLORINE SYSTEM kg	09LOV03W POWER RECEIVING WATT HOUR kWh
0	388	0	0	266	129	0.00	1.14	0.00	90
1	52	0	0	219	20	0.00	1.13	0.00	30
2	0	0	0	214	0	0.00	1.13	0.00	70
3	0	0	0	216	0	0.00	1.13	0.00	10
4	306	0	0	182	92	0.00	1.14	0.00	60
5	389	0	0	349	132	0.00	1.14	0.00	160
6	389	0	0	546	132	0.00	1.14	0.00	150
7	388	0	0	579	132	0.00	1.14	0.00	150
8	387	0	0	439	128	0.00	1.14	0.00	80
9	387	0	0	434	116	0.00	1.13	0.00	130
10	387	0	0	512	129	0.00	1.14	0.00	150
11	387	0	0	509	137	0.00	1.13	0.00	150
12	387	0	0	481	139	0.00	1.13	0.00	110
13	387	0	0	229	132	0.00	1.14	0.00	100
14	387	0	0	509	132	0.00	1.14	0.00	160
15	387	0	0	490	134	0.00	1.14	0.00	150
16	387	0	0	524	137	0.00	1.14	0.00	130
17	388	0	0	226	132	0.00	1.14	0.00	80
18	386	0	0	547	136	0.00	1.14	0.00	160
19	387	0	0	514	137	0.00	1.14	0.00	150
20	387	0	0	479	136	0.00	1.14	0.00	150
21	388	0	0	359	134	0.00	1.14	0.00	90
22	387	0	0	312	135	0.00	1.14	0.00	120
23	388	0	0	389	143	0.00	1.14	0.00	150
Max	389	0	0	579	143	0.00	1.14	0.00	160
Min	0	0	0	182	0	0.00	1.13	0.00	10
Ave	338	0	0	397	116	0.00	1.14	0.00	116
Total	8,106	0	0	9,524	2,774	0.00	27.30	0.00	2,780

Table 3.1 (6) Operating Conditions of SRWSA Production Wells

DATE: 05/10/2010

Daily Report

	02EF01 RAW WATER INFLOW	03EF01 BACKWASH WATER FLOW	03EF02 SURFACE WASH WATER FLOW	05EF01 WATER OUTFLOW	07EF01 LIME DOSING FLOW	07CE01 No.1 CHLORINE SYSTEM	07CE02 No.2 CHLORINE SYSTEM	07CE03 No.3 CHLORINE SYSTEM		09LOV03W POWER RECEIVING WATT HOUR
Hour	m ³	m ³	m ³	m ³	l	kg	kg	kg		kWh
0	387	0	0	314	144	0.00	1.14	0.00		100
1	388	0	0	247	143	0.00	1.14	0.00		100
2	388	0	0	232	145	0.00	1.14	0.00		120
3	389	0	0	214	145	0.00	1.14	0.00		80
4	387	0	0	233	144	0.00	1.14	0.00		120
5	387	0	0	371	145	0.00	1.14	0.00		110
6	386	0	0	550	146	0.00	1.14	0.00		130
7	387	67	10	561	144	0.00	1.13	0.00		160
8	386	5	0	531	140	0.00	1.14	0.00		150
9	386	0	0	520	139	0.00	1.14	0.00		160
10	386	0	0	508	138	0.00	1.14	0.00		160
11	387	0	0	523	138	0.00	1.15	0.00		110
12	387	0	0	496	137	0.00	1.15	0.00		150
13	386	0	0	488	137	0.00	1.14	0.00		150
14	387	0	0	489	137	0.00	1.14	0.00		160
15	387	0	0	472	137	0.00	1.14	0.00		110
16	387	0	0	467	136	0.00	1.14	0.00		150
17	387	0	0	500	136	0.00	1.14	0.00		160
18	385	0	0	519	136	0.00	1.15	0.00		150
19	387	0	0	509	107	0.00	1.14	0.00		150
20	387	0	0	453	140	0.00	1.14	0.01		100
21	387	0	0	417	136	0.00	1.14	0.03		150
22	387	0	0	370	140	0.00	1.15	0.03		140
23	387	0	0	298	139	0.00	1.15	0.03		70
Max	389	67	10	561	146	0.00	1.15	0.03		160
Min	385	0	0	214	107	0.00	1.13	0.00		70
Ave	387	3	0	428	139	0.00	1.14	0.00		131
Total	9,285	72	10	10,282	3,329	0.00	27.40	0.10		3,140

Table 3.1 (7) Operating Conditions of SRWSA Production Wells

DATE: 12/14/2007

Daily Report

Hour	02EF01 RAW WATER INFLOW m3	03EF01 BACKWASH WATER FLOW m3	03EF02 SURFACE WASH WATER FLOW m3	05EF01 WATER OUTFLOW m3	07EF01 LIME DOSING FLOW l	07CE01 No.1 CHLORINE SYSTEM kg	07CE02 No.2 CHLORINE SYSTEM kg	07CE03 No.3 CHLORINE SYSTEM kg	09LOV03W POWER RECEIVING WATT HOUR kWh
0	366	0	0	192	72	0.00	0.00	0.84	130
1	366	0	0	172	71	0.00	0.00	0.84	70
2	291	0	0	157	57	0.00	0.00	0.71	50
3	0	0	0	153	0	0.00	0.00	0.00	60
4	0	0	0	176	0	0.00	0.00	0.00	20
5	0	0	0	227	0	0.00	0.00	0.00	0
6	206	0	0	400	42	0.00	0.00	0.44	120
7	367	0	0	483	76	0.00	0.00	0.83	150
8	366	0	0	446	76	0.00	0.00	0.83	70
9	366	77	22	416	75	0.00	0.00	0.82	150
10	365	103	15	413	75	0.00	0.00	0.83	140
11	366	0	0	389	68	0.00	0.00	0.82	80
12	366	0	0	374	77	0.00	0.00	0.83	130
13	365	0	0	380	77	0.00	0.00	0.82	120
14	365	0	0	360	77	0.00	0.00	0.73	100
15	365	0	0	355	77	0.00	0.00	0.82	140
16	366	0	0	380	76	0.00	0.00	0.82	90
17	365	0	0	399	77	0.00	0.00	0.82	120
18	364	0	0	416	71	0.00	0.00	0.82	150
19	366	0	0	392	72	0.00	0.00	0.82	70
20	366	0	0	367	71	0.00	0.00	0.82	140
21	365	0	0	361	71	0.00	0.00	0.82	120
22	366	0	0	295	71	0.00	0.00	0.82	80
23	366	0	0	244	71	0.00	0.00	0.82	130
Max	367	103	22	483	77	0.00	0.00	0.84	150
Min	0	0	0	153	0	0.00	0.00	0.00	0
Ave	310	8	2	331	63	0.00	0.00	0.70	101
Total	7,444	180	37	7,947	1,500	0.00	0.00	16.72	2,430

Table 3.1 (8) Operating Conditions of SRWSA Production Wells

DATE: 12/15/2007

Daily Report

Hour	02EF01 RAW WATER INFLOW m ³	03EF01 BACKWASH WATER FLOW m ³	03EF02 SURFACE WASH WATER FLOW m ³	05EF01 WATER OUTFLOW m ³	07EF01 LIME DOSING FLOW l	07CE01 No.1 CHLORINE SYSTEM kg	07CE02 No.2 CHLORINE SYSTEM kg	07CE03 No.3 CHLORINE SYSTEM kg	09LOV03W POWER RECEIVING WATT HOUR kWh
0	366	0	0	206	71	0.00	0.00	0.82	60
1	366	0	0	177	71	0.00	0.00	0.82	90
2	366	0	0	175	71	0.00	0.00	0.82	110
3	367	0	0	167	71	0.00	0.00	0.82	60
4	367	0	0	170	71	0.00	0.00	0.82	90
5	366	0	0	228	71	0.00	0.00	0.82	110
6	365	0	0	410	71	0.00	0.00	0.82	90
7	366	0	0	475	71	0.00	0.00	0.82	150
8	365	0	0	463	71	0.00	0.00	0.82	140
9	366	0	0	438	71	0.00	0.00	0.83	80
10	365	0	0	411	71	0.00	0.00	0.83	140
11	365	0	0	412	71	0.00	0.00	0.82	130
12	366	0	0	383	71	0.00	0.00	0.82	80
13	365	0	0	355	71	0.00	0.00	0.83	150
14	365	0	0	357	64	0.00	0.00	0.82	80
15	365	0	0	352	69	0.00	0.00	0.83	120
16	365	0	0	370	70	0.00	0.00	0.83	120
17	365	0	0	395	70	0.00	0.00	0.83	90
18	364	0	0	419	69	0.00	0.00	0.83	140
19	366	0	0	375	70	0.00	0.00	0.82	110
20	366	0	0	343	69	0.00	0.00	0.83	100
21	365	0	0	354	69	0.00	0.00	0.82	140
22	366	0	0	301	69	0.00	0.00	0.83	60
23	367	0	0	249	69	0.00	0.00	0.83	140
Max	367	0	0	475	71	0.00	0.00	0.83	150
Min	364	0	0	167	64	0.00	0.00	0.82	60
Ave	366	0	0	333	70	0.00	0.00	0.82	108
Total	8,775	0	0	7,985	1,682	0.00	0.00	19.78	2,580

Table 3.1 (9) Operating Conditions of SRWSA Production Wells

DATE: 12/16/2007

Daily Report

	02EF01 RAW WATER INFLOW	03EF01 BACKWASH WATER FLOW	03EF02 SURFACE WASH WATER FLOW	05EF01 WATER OUTFLOW	07EF01 LIME DOSING FLOW	07CE01 No.1 CHLORINE SYSTEM	07CE02 No.2 CHLORINE SYSTEM	07CE03 No.3 CHLORINE SYSTEM		09LOV03W POWER RECEIVING WATT HOUR
Hour	m ³	m ³	m ³	m ³	l	kg	kg	kg		kWh
0	366	0	0	205	69	0.00	0.00	0.83		70
1	366	0	0	182	69	0.00	0.00	0.83		70
2	366	0	0	172	68	0.00	0.00	0.83		120
3	230	0	0	169	43	0.00	0.00	0.54		50
4	0	0	0	176	0	0.00	0.00	0.00		10
5	0	0	0	232	0	0.00	0.00	0.00		70
6	334	0	0	388	59	0.00	0.00	0.73		70
7	367	0	0	471	66	0.00	0.00	0.84		150
8	365	0	0	456	66	0.00	0.00	0.84		140
9	367	0	0	434	66	0.00	0.00	0.84		70
10	365	0	0	413	67	0.00	0.00	0.84		140
11	365	60	11	403	67	0.00	0.00	0.84		150
12	366	121	25	371	67	0.00	0.00	0.84		70
13	364	0	0	364	67	0.00	0.00	0.84		150
14	365	0	0	380	67	0.00	0.00	0.84		90
15	365	0	0	368	67	0.00	0.00	0.84		120
16	365	0	0	397	67	0.00	0.00	0.84		140
17	365	0	0	413	67	0.00	0.00	0.83		70
18	364	0	0	414	67	0.00	0.00	0.84		150
19	365	0	0	382	67	0.00	0.00	0.84		120
20	366	0	0	350	68	0.00	0.00	0.84		80
21	365	0	0	330	68	0.00	0.00	0.84		150
22	366	0	0	297	68	0.00	0.00	0.84		70
23	366	0	0	224	65	0.00	0.00	0.84		100
Max	367	121	25	471	69	0.00	0.00	0.84		150
Min	0	0	0	169	0	0.00	0.00	0.00		10
Ave	328	8	2	333	60	0.00	0.00	0.75		101
Total	7,873	181	36	7,991	1,445	0.00	0.00	18.03		2,420