

Phnom Penh, 13/01/2012

Sample W0105854

N° E13709, Surface Water "Kratie River Water Sample #1/2"
#12B, St.36, Sen Sok, Phnom Penh

WATER ANALYSIS FOR HUMAN CONSUMPTION

IDENTIFICATION:

DATE OF RECEPTION:: 05.01.2012
ORIGINAL REQUEST or ADDRESS.....: Daniel P. Dimick (IMG-UNDP Project)
NATURE OF WATER: Surface Water "Kratie River Water Sample #1/2"



MICROBIOLOGICAL ANALYSIS:

	Results	m value	(NORMS)
Total aerobic plate count at 37°C-24h	2.1x10 ³ CFU/ml ✓	(N : <10)	NF EN ISO 6222
Total aerobic plate count at 22°C-72h	3.1x10 ³ CFU/ml ✓	(N : < 100)	NF EN ISO 6222
Total Coliforms	1.5x10 ³ CFU/100 ml ✓	(N : 0)	NF EN ISO 9308-1
Thermotolerant Coliforms	8.0x10 ² CFU/100 ml ✓	(N : 0)	NF EN ISO 9308-1
<i>Escherichia coli</i>	60 CFU/100 ml ✓	(N : 0)	NF EN ISO 9308-1
<i>Enterococcus Faecalis</i>	60 CFU/100 ml ✓	(N : 0)	NF EN ISO 7899-2
Sulfite reducing anaerobes	4 CFU/20 ml ✓	(N : 0)	NF T90-415
<i>Pseudomonas aeruginosa</i>	<1 CFU/100 ml	(N : 0)	NF EN ISO 12870

PHYSICO-CHEMICAL ANALYSIS:

	Results	Limit value	(NORMS)
Turbidity	5.00 NTU	(N : < 2)	NF T90-033
pH	7.50	(N : 6.5-9)	NF T90-008
Chloride	29.00 mg/l	(N : < 250)	NF T90-014
Ammonia	0.00 mg/l	(N : < 0.5)	NF T90-015
Nitrite	0.00 mg/l	(N : < 0.1)	NF T90-013
Nitrate	0.22 mg/l	(N : < 50)	NF T90-012
Hardness	82.00 mg/l	(N : < 300)	NF T90-003
Iron	0.06 mg/l	(N : < 0.3)	NF T90-017
Arsenic	0.00 mg/l	(N : < 0.05)	NF EN ISO 11885

Vincent DEUBEL

KRUY Sun Lay

YITH Vuthy

Pr. Vincent DEUBEL
Pr. KRUY Sun Lay

Phnom Penh, 13/01/2012

Sample W0105858
N° E13713, Surface Water "Kratie River Water Sample #2/2 Treat"
#12B, St.36, Sen Sok, Phnom Penh

WATER ANALYSIS FOR HUMAN CONSUMPTION



IDENTIFICATION:

DATE OF RECEPTION:: 05.01.2012
ORIGINAL REQUEST or ADDRESS.....: Daniel P. Dimick (IMG-UNDP Project)
NATURE OF WATER: Surface Water "Kratie River Water Sample #2/2 Treat"

MICROBIOLOGICAL ANALYSIS:

	Results	m value	(NORMS)
Total aerobic plate count at 37°C-24h.....:	46 CFU/ml✓	(N : <10)	NF EN ISO 6222
Total aerobic plate count at 22°C-72h.....:	52 CFU/ml	(N : < 100)	NF EN ISO 6222
Total Coliforms.....:	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
Thermotolerant Coliforms.....:	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
<i>Escherichia coli</i>:	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
<i>Enterococcus Faecalis</i>:	<1 CFU/100 ml	(N : 0)	NF EN ISO 7899-2
Sulfite reducing anaerobes.....:	4 CFU/20 ml	(N : 0)	NF T90-415
<i>Pseudomonas aeruginosa</i>:	<1 CFU/100 ml	(N : 0)	NF EN ISO 12870

PHYSICO-CHEMICAL ANALYSIS:

	Results	Limit value	(NORMS)
Turbidity.....:	0.00 NTU	(N : < 2)	NF T90-033
pH.....:	7.30	(N : 6.5-9)	NF T90-008
Chloride.....:	0.00 mg/l	(N : < 250)	NF T90-014
Ammonia.....:	0.75 mg/l✓	(N : < 0.5)	NF T90-015
Nitrite.....:	0.00 mg/l	(N : < 0.1)	NF T90-013
Nitrate.....:	4.44 mg/l	(N : < 50)	NF T90-012
Hardness.....:	120.00 mg/l	(N : < 300)	NF T90-003
Iron.....:	0.00 mg/l	(N : < 0.3)	NF T90-017
Arsenic.....:	0.00 mg/l	(N : < 0.05)	NF EN ISO 11885

Vincent DEUBEL

KRUY Sun Lay

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Phnom Penh, 13/01/2012

Sample W0105855

N° E13710, Drilling Water "Banlung Well Water Sample #1/2"
#12B, St.36, Sen Sok, Phnom Penh

WATER ANALYSIS FOR HUMAN CONSUMPTION

IDENTIFICATION:

DATE OF RECEPTION:: 05.01.2012
ORIGINAL REQUEST or ADDRESS.....: Daniel P. Dimick (IMG-UNDP Project)
NATURE OF WATER: Drilling Water "Banlung Well Water Sample #1/2"



MICROBIOLOGICAL ANALYSIS:

	Results	m value	(NORMS)
Total aerobic plate count at 37°C-24h.....	1.2x10 ³ CFU/ml ✓	(N : <10)	NF EN ISO 6222
Total aerobic plate count at 22°C-72h.....	2.4x10 ³ CFU/ml ✓	(N : < 100)	NF EN ISO 6222
Total Coliforms.....	8 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
Thermotolerant Coliforms.....	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
<i>Escherichia coli</i>	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
<i>Enterococcus Faecalis</i>	<1 CFU/100 ml	(N : 0)	NF EN ISO 7899-2
Sulfite reducing anaerobes.....	<1 CFU/20 ml	(N : 0)	NF T90-415
<i>Pseudomonas aeruginosa</i>	<1 CFU/100 ml	(N : 0)	NF EN ISO 12870

PHYSICO-CHEMICAL ANALYSIS:

	Results	Limit value	(NORMS)
Turbidity.....	0.00 NTU	(N : < 2)	NF T90-033
pH.....	6.50	(N : 6.5-9)	NF T90-008
Chloride.....	10.00 mg/l	(N : < 250)	NF T90-014
Ammonia.....	0.00 mg/l	(N : < 0.5)	NF T90-015
Nitrite.....	0.02 mg/l	(N : < 0.1)	NF T90-013
Nitrate.....	20.00 mg/l	(N : < 50)	NF T90-012
Hardness.....	75.00 mg/l	(N : < 300)	NF T90-003
Iron.....	0.05 mg/l	(N : < 0.3)	NF T90-017
Arsenic.....	0.00 mg/l	(N : < 0.05)	NF EN ISO 11885

Vincent DEUBEL

KRUY Sun Lay

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Phnom Penh, 13/01/2012

Sample W0105857
N° E13712, Drilling Water "Banlung Well Water Sample #2/2 Trea
#12B, St.36, Sen Sok, Phnom Penh

WATER ANALYSIS FOR HUMAN CONSUMPTION

IDENTIFICATION:

DATE OF RECEPTION:: 05.01.2012
ORIGINAL REQUEST or ADDRESS.....: Daniel P. Dimick (IMG-UNDP Project)
NATURE OF WATER: Drilling Water "Banlung Well Water Sample #2/2 Treat"



MICROBIOLOGICAL ANALYSIS:

	Results	m value	(NORMS)
Total aerobic plate count at 37°C-24h.....:	2 CFU/ml	(N : <10)	NF EN ISO 6222
Total aerobic plate count at 22°C-72h.....:	3 CFU/ml	(N : < 100)	NF EN ISO 6222
Total Coliforms.....:	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
Thermotolerant Coliforms.....:	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
<i>Escherichia coli</i>:	<1 CFU/100 ml	(N : 0)	NF EN ISO 9308-1
<i>Enterococcus Faecalis</i>:	<1 CFU/100 ml	(N : 0)	NF EN ISO 7899-2
Sulfite reducing anaerobes.....:	<1 CFU/20 ml	(N : 0)	NF T90-415
<i>Pseudomonas aeruginosa</i>:	<1 CFU/100 ml	(N : 0)	NF EN ISO 12870

PHYSICO-CHEMICAL ANALYSIS:

	Results	Limit value	(NORMS)
Turbidity.....:	0.00 NTU	(N : < 2)	NF T90-033
pH.....:	6.50	(N : 6.5-9)	NF T90-008
Chloride.....:	20.00 mg/l	(N : < 250)	NF T90-014
Ammonia.....:	0.43 mg/l	(N : < 0.5)	NF T90-015
Nitrite.....:	0.02 mg/l	(N : < 0.1)	NF T90-013
Nitrate.....:	16.80 mg/l	(N : < 50)	NF T90-012
Hardness.....:	110.00 mg/l	(N : < 300)	NF T90-003
Iron.....:	0.00 mg/l	(N : < 0.3)	NF T90-017
Arsenic.....:	0.00 mg/l	(N : < 0.05)	NF EN ISO 11885

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