

Environmental Assessment Document

Project No: PPTA 8306-RMI

Date: February 2015

Status: Draft Final Report

Republic of the Marshall Islands **Ebeye Water Supply and Sanitation Project**

Initial Environmental Examination

APPENDIX E: Water Quality Test Data

Prepared by Kwajalein Atoll Joint Utilities Resources Inc.
for the Asian Development Bank

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REPUBLIC OF THE MARSHALL ISLANDS
ENVIRONMENTAL PROTECTION AUTHORITY

P.O. BOX 5223 Ebeye, Marshall Islands 96970
Phone: (692) 329-3787/4787 Fax: (692) 329-3787 email: ebeyeepa@ntamar.net

EBEYE WQM (BACTERIAL) MONTHLY REPORT
January 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	7	4	3	
Hotels/Apts.	3	3	0	
2. BW/ICED WATER SOURCES	8	8	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	12	12	0	
Bakeries	9	6	3	
Take Outs/Delis	4	3	1	
4. PRIVATE WATER SOURCES	15	9	6	NM
5. COASTAL WATERS				NM
6.				
7. TOTAL for the month	58	52	13	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
WQM Lab Technician

Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
February, 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	21	16	5	
Hotels/Apts.	2	2	0	
2. BW/ICED WATER SOURCES	10	10	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	12	10	2	
Bakeries	6	6	0	
Take Outs/Delis	10	6	4	
4. PRIVATE WATER SOURCES	17	10	7	NM
5. COASTAL WATERS	10	9	1	NM
6.				
7. TOTAL for the month	88	69	19	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
WQM Lab Technician

3-16-12
Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A)** of pathogens (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
March 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	5	5	0	
Hotels/Apts.	4	4	0	
2. BW/ICED WATER SOURCES	5	5	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	3	2	1	
Bakeries	6	5	1	
Take Outs/Delis	1	1	0	
4. PRIVATE WATER SOURCES	24	13	11	NM
5. COASTAL WATERS	0	0	0	NM
6.				
7. TOTAL for the month	48	35	13	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
WQM Lab Technician

March 29, 2012
Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
April 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	6	6	0	
School	6	2	4	
2. BW/ICED WATER SOURCES	8	4	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	3	3	0	
Bakeries	10	7	3	
Take Outs/Delis	6	6	0	
4. PRIVATE WATER SOURCES	15	8	7	NM
5. COASTAL WATERS	0	0	0	NM
6.				
7. TOTAL for the month	54	36	14	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
WQM Lab Technician

5-4-2012
Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A)** of pathogens (disease causing bacteria) Tested with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
May 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	6	6	0	
EPA tab	4	4	0	
2. BW/ICED WATER SOURCES	0	0	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	0	0	0	
Bakeries	0	0	0	
Take Outs/Delis	0	0	0	
4. PRIVATE WATER SOURCES	0	0	0	NM
5. COASTAL WATERS	0	0	0	NM
6.				
7. TOTAL for the month				

Extra Activities:

_____ The public tab has an average of 0.3 FAC for the month of May 2012.

Respectfully submitted,

Nathaniel Matauto
 WQM Lab Technician

6-11-2012
 Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) Tested with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
June 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				OJ
KAJUR	6	6	0	
EPA tab	4	4	0	
2. BW/ICED WATER SOURCES	0	0	0	OJ
3. FOOD ESTABLISHMENTS				OJ
Restaurant Kitchen tap	0	0	0	
Bakeries	0	0	0	
Take Outs/Delis	0	0	0	
4. PRIVATE WATER SOURCES	0	0	0	OJ
5. COASTAL WATERS	0	0	0	OJ
6.				
7. TOTAL for the month				

Extra Activities:

_____ The public tab has an average of 0.3 FAC for the month of June 2012.
 _____ EPA tab has an average of 0.4 FAC for the month of June 2012.

Respectfully submitted,

 Nathaniel Matauto
 WQM Lab Technician

7-2-2012
 Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) Tested with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
July 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	6	6	0	
Hotels/Apts.	2	2	0	
2. BW/ICED WATER SOURCES	10	8	2	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	3	3	0	
Bakeries	12	10	2	
Take Outs/Delis	6	6	0	
4. PRIVATE WATER SOURCES	25	20	5	NM
5. COASTAL WATERS	0	0	0	NM
6.				
7. TOTAL for the month	64	55	9	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
 WQM Lab Technician

7-25-12
 Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
August, 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	8	7	1	
Hotels/Apts.	6	4	2	
2. BW/ICED WATER SOURCES	8	8	2	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	6	3	3	
Bakeries	14	10	4	
Take Outs/Delis	6	4	2	
4. PRIVATE WATER SOURCES	20	14	5	NM
5. COASTAL WATERS	10	6	4	NM
6.				
7. TOTAL for the month	78	56	23	

Extra Activities:

_____ Coastal samples were conducted once due: only 1 10ml cylinder and no pipettor. Pipettor with 10 tubes are being order by Abraham Hicking.

Respectfully submitted,

 Nathaniel Matauto
 WQM Lab Technician

8-29-12
 Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
September 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	4	4	0	
Hotels/Apts.	4	4	0	
2. BW/ICED WATER SOURCES	8	8	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	6	6	0	
Bakeries	14	10	4	
Take Outs/Delis	6	3	3	
4. PRIVATE WATER SOURCES	4	2	2	NM
5. COASTAL WATERS	0	0	0	NM
6.				
7. TOTAL for the month	46	37	9	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
 WQM Lab Technician

9-27-12
 Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
October 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	10	10	0	
Hotels/Apts.	3	3	3	
2. BW/ICED WATER SOURCES	6	6	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	7	5	2	
Bakeries	7	4	3	
Take Outs/Delis	8	8	0	
4. PRIVATE WATER SOURCES	13	7	6	NM
5. COASTAL WATERS	10	3	7	NM
6.				
7. TOTAL for the month	64	46	21	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto _____
WQM Lab Technician

11-2-12
Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
November, 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	8	7	1	
Hotels/Apts.	3	3	3	
2. BW/ICED WATER SOURCES	12	10	2	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	9	5	4	
Bakeries	16	13	3	
Take Outs/Delis	4	4	0	
4. PRIVATE WATER SOURCES	25	14	11	NM
5. COASTAL WATERS	10	7	3	NM
6.				
7. TOTAL for the month	87	63	27	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
WQM Lab Technician

11-30-12
Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



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EBEYE WQM (BACTERIAL) MONTHLY REPORT
December 2012

Water Group (Name)	Total No. of Tests/Samples	Total No. of Safe	Total No. of Unsafe	Comments/Initial
1. PUBLIC WATER SUPPLIES:				NM
KAJUR	10	10	0	
Hotels/Apts.	3	3	3	
2. BW/ICED WATER SOURCES	6	6	0	NM
3. FOOD ESTABLISHMENTS				NM
Restaurant Kitchen tap	4	4	0	
Bakeries	7	5	2	
Take Outs/Delis	5	5	0	
4. PRIVATE WATER SOURCES	10	5	5	NM
5. COASTAL WATERS	10	3	7	NM
6.				
7. TOTAL for the month	55	41	17	

Extra Activities:

Respectfully submitted,

Nathaniel Matauto
WQM Lab Technician

12-29-12
Date

Notes: Safe bacteria samples are those tests that show **Negative** or **Absence (A) of pathogens** (disease causing bacteria) either with Colilert Tests or with the H₂S tests.



Republic of Marshall Islands
 Environmental Protection Agency
 Water Quality Laboratory
 P.O. Box 5223, Ebeye, Marshall Islands MH96970
 Phone: (692) 329-3787/4787 Fax: (692)329-3787

Sample Collection and Analytical Record: *Enterococci* in Coastal Waters by Enterolert Method

Sample Collection Record						Results for Quanti-tray 2000				Comments
						Enterococci				
Lab #	Location	Type	Date	Time	Temp. °C	# pos (+) wells		MPN (diluted)	MPN (actual x 10)	
						Large	Small			
1	BEACH PARK	COASTAL	2-27-14	1330		4	0	4	40	
2	BATIEH WETO	COASTAL	2-27-14	1326		5	3	8	80	
3	LOLE WETO	COASTAL	2-27-14	1341		4	3	7	70	
4	MAKIN WETO	COASTAL	2-27-14	1351		7	4	12	120	
5	EBEYE DOCK	COASTAL	2-27-14	1401		21	6	34	340	
6	EDKOJAJA WETO	COASTAL	2-27-14	1415		30	13	66	660	
7	TDBIKLE WETO	COASTAL	2-27-14	1424		36	4	68	680	
8	OUTFALL I	COASTAL	2-27-14	1432		48	11	190	1900	
9	OUTFALL II	COASTAL	2-27-14	1437		47	13	180	1800	
10	DUMPSITE	COASTAL	2-27-14	1448		48	20	270	2700	
Negative Blank Control			2-27-14	1454		-	-	-	-	

Sampler: Nathan Received by: _____ Date/Time: _____ Lab analyst: Nathan

Incubation start date/time: 2-27-14 / 1500

Expected read out date/time: 2-28-14 / 1509

Actual read out date/time: 2-28-14 / 1509

Date approved by Lab Manager: _____ Signature: _____

Enterolert Form: Revised Jan 24, 2013

Standard for Marine Recreational
 Water Quality is 104MPN/100mL

Enterolert Lot #: EJS24
 Expiration Date: 22 JUN 2014

*After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y
 *Did you prepare the negative blank for comparison? (Y/N) Y



www.doh.gov

Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Lab #	Sample Collection Record					Results for Quanti-tray 2000					FAC (mg/L)	Comments	
	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli		MPN /100 mL			
						# pos (+) wells	MPN/ 100 mL	Large	Small				
1	TRIPLE JICE	RAIN 01-02-13	01-02-13	0805		0	1	0	0	0	0	0.2	
2	T-J WHOLESALE	BOTH	01-03-13	0816		1	0	0	0	0	0	0.1	
3	T-J FASTFOOD	RAIN	01-03-13	0821		0	1	0	0	0	0	0.2	
4	T-J W-STATION	GUAM	01-02-13	0826		0	0	0	0	0	0	0	FILTER
5	LUCKY STAR ICE	RAIN	01-03-13	0837		0	0	0	0	0	0	0	FILTER
6	LUCKY-STAR	BOTH	01-03-13	0840		0	4	0	3	3	3	0.2	
7	FISH MARKET	BOTH	01-03-13	0901		0	1	0	1	1	1	0.2	
8	LITAKI REST.	C-U	01-03-13	0915		0	3	0	1	1	1	0.4	
9	T-J BUTCHER	BOTH	01-03-13	0829		0	4	0	2	2	2	0.1	
10	EPA TAP	C-W	01-03-13	0920		0	0	0	0	0	0	0.2	

Sampler: Nathan Received by: _____ Date/Time: _____

Incubation start date/time: 01-03-13 / 1130

Expected read out date/time: 01-04-13 / 1130

Actual read out date/time: 01-04-13 / 1158

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Lab analyst: Nathan

Colilert Q-Tray 2000 Comparator
Expiration Date: March 12 2014

Colilert Lot #: 4H444
Expiration Date: 14 JAN 2013
*After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
*After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y



10010 Bland Blvd. Charlottesville, VA 22902
 Phone: 800-645-3113 or 434-977-3000
 Fax: 434-977-3000

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Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Lab #	Sample Collection Record				Results for Quanti-tray 2000					FAC (mg/L)	Comments	
	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli				MPN /100 mL
						# pos (+) wells	MPN/100 mL	# pos (+) wells	MPN /100 mL			
						Large	Small	Large	Small			
1	AD BAKERY	RAIN	01-14-13	0901		5	2	0	0	0	0.1	
2	ANEJ BAKERY	RAIN	01-14-13	0915		2	3	0	1	1	0	
3	PUBLIC TAP	R.O	01-14-13	1001		0	0	0	0	0	0.4	
4	HOSPITAL FILTERED R.O		01-14-12	1019		0	1	0	0	0	0	FILTER
5	PATRICK BING	C-W	01-14-13	1021		6	7	5	7	13	0	

Sampler: Nathan Received by: 1 Date/Time: _____
 Lab analyst: Nathan

Incubation start date/time: 01-14-13 / 1100
 Expected read out date/time: 01-15-13 / 1100
 Actual read out date/time: 01-15-13 / 1105

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Colilert Q-Tray 2000 Comparator
 Expiration Date: 12 MAR 2014

Colilert Lot #: 411444
 Expiration Date: 14 JAN 2013
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y



Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Lab #	Sample Collection Record					Results for Quanti-tray 2000					FAC (mg/L)	Comments	
	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli		MPN /100 mL			
						# pos (+) wells	MPN/ 100 mL	# pos (+) wells					
								Large	Small				Large
1	A+B BAKERY	BOTH	1-17-13	1305		10	3	14		1	1	2	
2	ST BAKERY	BOTH	1-17-13	1315		4	2	6		2	1	3	
3	DANELLA BAKERY	R.O	1-17-13	1319		6	2	8		0	0	0	
4	JINNA BAKERY	RAIN	1-17-13	1327		10	1	12		3	1	4	
5	ANGU BAKERY	BOTH	1-17-13	1335		2	5	7		0	0	0	
6	KALIEN BAKERY	RAIN	1-17-13	1347		8	2	11		0	1	1	
7	DIY REST	RAIN	1-17-13	1401		2	3	5		1	0	1	
8	T-J FASTFOOD	RAIN	1-17-13	1416		0	0	0		0	0	0	
9	LITAKI REST	BOTH	1-17-13	1427		0	0	0		0	0	0	
10	MAMA'S STORE	BOTH	1-17-13	1439		2	5	7		0	1	1	

Sampler: Nathan Received by: _____ Date/Time: _____

Incubation start date/time: 01-17-13 / 1505

Expected read out date/time: 01-18-13 / 1505

Actual read out date/time: 01-18-13 / 1600

Date approved by Lab Manager: _____ Signature: _____

Lab analyst: Nathan

Colilert Lot #: ~~XXXXXX~~ KH214

Expiration Date: 07 NOV 2013

*After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y

*After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y

Colilert Q-Tray 2000 Comparator

Expiration Date: 13 MAR 2014



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Sample Collection and Analytical Record: Enterococci in Coastal Waters by Enterolert Method

Sample Collection Record							Results for Quanti-tray 2000 Enterococci				Comments
Lab #	Location	Type	Date	Time	Temp. °C	# pos (+) wells	MPN (actual x 10)	MPN (diluted)	MPN (actual x 10)		
						Large	Small				
1	BEACH PARK	COASTAL	01-30-13	1330		2	0	2	20		
2	BATEN WETO	COASTAL	01-30-13	1341		3	1	4	40		
3	LOLE WETO	COASTAL	01-30-13	1347		4	0	4	40		
4	NONNIN WETO	COASTAL	01-30-13	1355		2	1	3	30		
5	EBEYL DOCK	COASTAL	01-30-13	1401		24	5	39	390		
6	EDKOJAJA WETO	COASTAL	01-30-13	1409		21	3	31	310		
7	TDBIKLE WETO	COASTAL	01-30-13	1416		30	15	52	520		
8	OUTFALL I	COASTAL	01-30-13	1430		46	11	150	1500		
9	OUTFALL II	COASTAL	01-30-13	1435		48	12	200	2000		
10	DUMPSITE	COASTAL	01-30-13	1447		48	21	290	2900		
Negative Blank Control			01-31-13	1500		—	—	—	0		

Sampler: Nathan Received by: Nathan Date/Time: _____ Lab analyst: Nathan

Incubation start date/time: 01-30-13 1500

Expected read out date/time: 01-31-13 1500

Actual read out date/time: 01-31-13 1510

Date approved by Lab Manager: _____ Signature: _____

Standard for Marine Recreational Water Quality is 104MPN/100mL

Enterolert Lot # JH926
 Expiration Date: 02 OCT 2012
 *After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y
 *Did you prepare the negative blank for comparison? (Y/N) Y



Republic of Marshall Islands
 Environmental Protection Agency
 Water Quality Laboratory
 P.O. Box 5223, Ebeye, Marshall Islands MH96970
 Phone: (692) 329-3787/4787 Fax: (692)329-3787

Sample Collection and Analytical Record: Enterococci in Coastal Waters by Enterolert Method

Lab #	Sample Collection Record						Results for Quanti-tray 2000 Enterococci				Comments
	Location	Type	Date	Time	Temp. °C	# pos (+) wells		MPN (actual x 10)	MPN (diluted)		
						Large	Small				
1	BEACH PARK	COASTAL	02-27-12	1200		4	1	5	50		
2	BATEN WETO	COASTAL	02-27-12	1306		3	0	3	30		
3	LOLE WETO	COASTAL	02-27-12	1209		2	0	2	20		
4	MONNIN WETO	COASTAL	02-27-12	1215		15	2	200	200		
5	EBEYE DOCK	COASTAL	02-27-13	1328		10	2	13	130		
6	ERUKAJA WETO	COASTAL	02-27-13	1331		10	5	17	170		
7	TOBIKLE WETO	COASTAL	02-27-13	1345		2	0	2	20		
8	OUTPALL I	COASTAL	02-27-13	1401		4	0	4	40		
9	OUTPALL II	COASTAL	02-27-13	1407		1	0	1	10		
10	DUMPSITE	COASTAL	02-27-13	1420		46	11	150	1500		
	Negative Blank Control		02-27-12			-	-	-	-		

Sampler: Nathan Received by: _____ Date/Time: _____ Lab analyst: Nathan

Incubation start date/time: 02-27-13 / 1506

Expected read out date/time: 02-28-13 / 1500

Actual read out date/time: 02-28-13 / 1528

Date approved by Lab Manager: _____ Signature: _____

Enterolert Form: Revised Jan 24, 2013

Standard for Marine Recreational Water Quality is 104:MPN/100ml

Enterolert Lot #: JH126
 Expiration Date: 02 OCT 2013
 *After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) X
 *Did you prepare the negative blank for comparison? (Y/N) X



REPUBLIC OF THE MARSHALL ISLANDS
 ENVIRONMENTAL PROTECTION AUTHORITY
 P.O. Box 5228
 Male, Marshall Islands 6970
 Phone: (692) 234-3787 / 4787 * Fax: (692) 234-3787 * Email: ebeyeeqa@mtamar.net

Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Lab #	Sample Collection Record					Results for Quanti-tray 2000					FAC (mg/L)	Comments
	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli		MPN /100 mL		
						# pos (+) wells	MPN/ 100 mL	Large	Small			
1	BEACH PARK	COASTAL	8-5-13	1120		0	1	0	0	0		
2	BATEN WETO	COASTAL	8-5-13	1126		0	0	0	1	1		
3	LOLE WETO	COASTAL	8-5-13	1121		0	0	0	1	1		
4	NONNIN WETO	COASTAL	8-5-13	1137		4	5	37	6	75		
5	EBEYE DOCK	COASTAL	8-5-13	1143		0	0	0	12	32		
6	EKOJAJA WETO	COASTAL	8-5-13	1150		0	0	2	0	2		
7	TOBIKUE WETO	COASTAL	8-5-13	1153		0	1	2	0	2		
8	OUTFALL #1	COASTAL	8-5-13	1155		0	0	1	0	1		
9	OUTFALL #2	COASTAL	8-5-13	1154		0	0	4	0	4		
10	EBEYE DUNPSIRE	COASTAL	8-5-13	1205		0	0	0	0	0		
	BLANK											

Sampler: NATHAN Received by: _____ Date/Time: _____ Lab analyst: NATHAN

Incubation start date/time: 8-5-13 / 1645
 Expected read out date/time: 8-6-13 / 1645
 Actual read out date/time: _____ / _____

Colilert Q-Tray 2000 Comparator
 Expiration Date: _____

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Colilert Lot #: JH926
 Expiration Date: 03 OCT 2013
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y



REPUBLIC OF THE MARSHALL ISLANDS
ENVIRONMENTAL PROTECTION AUTHORITY

P.O. Box 5223

Debra Marshall (814) 636-0690

Phone: (662) 259-3587 / 4387 Fax: (662) 259-3587 Email: debra_marshall@epamail.net

Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Lab #	Sample Collection Record				Results for Quanti-tray 2000					FAC (mg/L)	Comments		
	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli				MPN /100 mL	
						# pos (+) wells	MPN/ 100 mL	# pos (+) wells	MPN /100 mL				
1	TJ ICE		8-6-13	0905		49	48	>2400	15	0	18	0	FILTER
2	TJ RESTROOM		8-6-13	0916		49	48	>2400	9	2	12	0	
3	TJ BUTCHER		8-6-13	0920		48	48	>2400	20	1	26	0	
4	TJ FASTFOOD		8-6-13	0926		44	8	120	2	2	4	0	
5	NAMA STORE		8-6-13	0945		25	9	74	4	0	4	0	
6	LUCKY STAR BUTCHER		8-6-13	0950		1	1	1	0	0	0	0	3.5
7	LUCKY STAR ICE		8-6-13	0953		0	0	0	0	0	0	0	FILTER
8	DIY KITCHEN		8-6-13	1001		49	48	>2400	16	2	21	0	
9	LYSAKO CRYSTAL WATER		8-6-13	1015		49	48	>2400	1	0	1	0	
10	LYSAKO CEMENT		8-6-13	1026		49	36	870	0	0	0	0	
11	DIY DRINKING WATER		8-6-13	1031		25	4	39	0	0	0	0	

Sampler: Nathan/T-FORCE Received by: _____
 Date/Time: _____

Incubation start date/time: 1500^{NM} 8-6-13 1500^{NM} 8-6-13

Expected read out date/time: 8-7-13 / 16:30

Actual read out date/time: 8-7-13 / 16:30

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Colilert Q-Tray 2000 Comparator
 Expiration Date: 13 March 2014

Colilert Lot #: KH214
 Expiration Date: 07 NOV 2013
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y



REPUBLIC OF THE MARSHALL ISLANDS
 ENVIRONMENTAL PROTECTION AUTHORITY
 P.O. Box 5223
 Ujae, Marshall Islands 96970
 Phone: (680) 329-3787/4787 * Fax: (680) 329-3787 * Email: eha@epa.mn.net

Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Lab #	Sample Collection Record				Results for Quanti-tray 2000						FAC (mg/L)	Comments	
	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli		MPN /100 mL			
						# pos (+) wells	MPN/ 100 mL	# pos (+) wells	MPN /100 mL				
12	LITAKI ICE		8-6-13	1155		49	48	72400	0	0	0	0	
13	LITAKI KITCHEN		8-6-13	1200		0	0	0	0	0	0	0	
14	CP STORE		8-6-13	1309		49	5	160	20	1	26	0	
15	DAR		8-6-13	1320		42	7	100	0	0	0	0	
16	ANEJ #1		8-6-13	1341		0	6	0	0	0	0	0	
17	ANEJ KITCHEN		8-6-13	1345		49	48	>2400	37	6	75	0	
<hr/>													
	RALIK STORE	ICE	8-7-13 NM 8-6-13	1145									
	RALIK W-D		8-7-13	1151		3	0		0	0			
	LSJI TAFT		8-7-13			49	48		40	0			
	WHITNEY D		8-7-13			49	48		40	39			

Lab analyst: Nathan

Date/Time: _____

Sampler: NATHAN / T-FORCE Received by: _____

Incubation start date/time: 8-6-13 / 1500

Expected read out date/time: 8-7-13 / 1630

Actual read out date/time: 8-7-13 / 1630

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Colilert Q-Tray 2000 Comparator
 Expiration Date: 13 March 2014

Colilert Lot #: KH214
 Expiration Date: 07 NOV 2012
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y



Republic of Marshall Islands
 Environmental Protection Agency
 Water Quality Laboratory
 P.O. Box 5223, Ebeye, Marshall Islands MH96970
 Phone: (692) 329-3787/4787 Fax: (692)329-3787

Sample Collection and Analytical Record: Enterococci in Coastal Waters by Enterolert Method

Lab #	Sample Collection Record					Results for Quanti-tray 2000				Comments
	Location	Type	Date	Time	Temp. °C	# pos (+) wells		MPN (actual x 10)	MPN (diluted)	
						Large	Small			
1	BEACH PARK	COASTAL	9-9-13	0945		2	0	20	2	
2	BATEN WETO	COASTAL	9-9-13	0951		3	1	30	3	
3	LOLE WETO	COASTAL	9-9-13	1001		4	11	150	150	
4	HONNIN WETO	COASTAL	9-9-13	1007		0	1	10	1	
5	DOLK	COASTAL	9-9-13	1013		3	0	30	3	
6	EDOKJAJIP WETO	COASTAL	9-9-13	1019		15	2	200	20	
7	TOBIKUE WETO	COASTAL	9-9-13	1023		1	0	10	1	
8	OUTFALL 1	COASTAL	9-9-13	1035		2	0	20	2	
9	OUTFALL 2	COASTAL	9-9-13	1037		1	0	10	1	
10	DUMPSITE	COASTAL	9-9-13	1047		4	1	50	5	
Negative Blank Control										

Sampler: NATHAN M Received by: KAWA Date/Time: 9/29 1500 Lab analyst: NATHAN M

Incubation start date/time: 9-9-13 1 1520
 Expected read out date/time: 9-10-13 1 1520
 Actual read out date/time: 9-11-13 1 1625

Date approved by Lab Manager: KAWA Signature: [Signature]

Standard for Marine Recreational Water Quality is 104MPN/100mL

Enterolert Lot #: JH926
 Expiration Date: 03 OCT 2013
 *After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y
 *Did you prepare the negative blank for comparison? (Y/N) Y



DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
 ENVIRONMENTAL HEALTH SERVICES
 111, 2nd Floor
 1000 N. Kapiolani Blvd., Suite 200, Honolulu, HI 96813
 Phone: (808) 551-2222 Fax: (808) 551-2222 Email: ehs@tanet.net

Sample Collection and Analytical Record: Total Coliform and E. coli in Drinking Water by Colilert-24 Method.

Sample Collection Record					Results for Quanti-tray 2000					FAC (mg/L)	Comments			
Lab #	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli				MPN /100 mL		
						# pos (+) wells	MPN/ 100 mL	# pos (+) wells	MPN /100 mL					
1	DIANA	C-WATER	10-14-13	1500		Large	0	Small	0	0	0	0		
2	DIANA	C-WATER	10-14-13	1515		Large	0	Small	0	0	0	0	0.4	
3	JILUNKAR L	C-WATER	10-14-13	1530		Large	0	Small	0	0	0	0	0.4	
4	JILUNKAR L	C-WATER	10-14-13	1535		Large	0	Small	0	0	0	0	0.4	
5	PAUL KUNIAK	C-WATER	10-14-13	1541		Large	0	Small	0	0	0	0	0.5	
6	KOJACK	C-WATER	10-14-13	1600		Large	0	Small	0	0	0	0	0.4	
1	WALKSOO	C-WATER	10-13-13	0905		Large	0	Small	0	0	0	0	0.3	
2	EDNEST	C-WATER	10-15-13	0915		Large	0	Small	0	0	0	0	0.3	

Sampler: NATHAN MATAUTO Received by: KARA Date/Time: 10/18/13 11pm Lab analyst: NATHAN

Incubation start date/time: 10-14-13 / 1540
 Expected read out date/time: 10-14-13 / 1540
 Actual read out date/time: 10-15-13 / 1600

Colilert Q-Tray 2000 Comparator
 Expiration Date: 13 MAR 2014

Colilert Lot #: K4214
 Expiration Date: 07 NOV 2013
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y

Date approved by Lab Manager: 10/17/13 Signature: [Signature]
 Colilert-24 Form: Revised Jan. 24, 2013



DEPARTMENT OF ENVIRONMENTAL PROTECTION
 STATE OF HAWAII
 1515 Kalia Road, Suite 2000
 Honolulu, HI 96813
 Phone: (808) 586-2500 Fax: (808) 586-2505
 Email: ebs@dep.state.hi.us

Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Sample Collection Record				Results for Quanti-tray 2000					FAC (mg/L)	Comments			
Lab #	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli					
						# pos (+) wells	MPN/100 mL	# pos (+) wells			MPN/100 mL		
1	Dry Rest	R-WATER	10-16-13	0915		49	48	72400	0	0	0		
2	Lucky Star Ice	R-WATER	10-16-13	0930		0	0	0	0	0	0		
3	Lucky Star Butcher	BOTH	10-16-13	0934		0	0	0	0	0	0		FILTER
4	TJ Ice Water	R-WATER	10-16-13	1041		0	0	0	0	0	0		FILTER
5	TJ Fastfood	BOTH	10-16-13	1046		0	0	0	0	0	0	0.5	
6	TJ Butcher	BOTH	10-16-13	1050		0	0	0	0	0	0	0.4	
7	TJ W-Station	GUAN	10-16-13	1055		0	0	0	0	0	0	0	UV LIGHT
8	Fishmarket	BOTH	10-16-13	1100		17	5	27	0	0	0	0.1	
9	Litaki Rest	C-WATER	10-16-13	1107		0	0	0	0	0	0	0.4	
10	Kaui P-Tap		10-16-13	1120		0	0	0	0	0	0	0	
11	Kaui P-Tap		10-16-13	1124		1	0	1	0	0	0	0.4	

Sampler: NATHAN MATTAUB Received by: _____ Date/Time: _____ Lab analyst: NATHAN

Incubation start date/time: 10-16-13 / 1355

Expected read out date/time: 10-16-13 / 1355

Actual read out date/time: 10-17 / 1445

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Colilert Q-Tray 2000 Comparator
 Expiration Date: 13 MAR 2014

Colilert Lot #: KH214
 Expiration Date: 01 NOV 2018
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 1111 GULF BLVD., SUITE 100
 TAMPA, FL 33604
 TEL: 813-941-3000 FAX: 813-941-3001
 WWW.FDEP.COM

Sample Collection and Analytical Record: Total Coliform and E.coli in Drinking Water by Colilert-24 Method.

Sample Collection Record				Results for Quanti-tray 2000					FAC (mg/L)	Comments		
Lab #	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli				
						# pos (+) wells	MPN/100 mL	# pos (+) wells			MPN/100 mL	
12	R-STORE ICE	R-WATER	10-16-13	1415		2	2	0	0	0		
13	R-STORE T.D.	R-WATER	10-16-13	1419		5	5	0	0	0		VV
14	EPA TAP	C-WATER	10-16-13	1330		49	>2400	5	0	5		

Sampler: NATHAN M Received by: _____ Date/Time: _____ Lab analyst: NATHAN

Incubation start date/time: 10-16-13 / 1355
 Expected read out date/time: 10-16-13 / 1555
 Actual read out date/time: 10-17-13 / 1445

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Colilert Q-Tray 2000 Comparator
 Expiration Date: 13 MAR 2014

Colilert Lot #: K11214
 Expiration Date: 07 NOV 2013
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y



Republic of Marshall Islands
 Environmental Protection Agency
 Water Quality Laboratory
 P.O. Box 5223, Ebeye, Marshall Islands MH96970
 Phone: (692) 329-3787/4787 Fax: (692)329-3787

Sample Collection and Analytical Record: Enterococci in Coastal Waters by Enterolert Method

Lab #	Sample Collection Record					Results for Quanti-tray 2000 Enterococci				Comments
	Location	Type	Date	Time	Temp. °C	# pos (+) wells		MPN (actual x 10)	MPN (diluted)	
						Large	Small			
1	BEACH PARK	COASTAL	10-28-13	1310		4	8	250	2500	
2	BATEN WED	COASTAL	10-28-13	1317		4	13	200	2000	
3	LOLE	COASTAL	10-28-13	1326		4	24	440	4400	
4	HONNIN	COASTAL	10-28-13	1335		4	21	240	2400	
5	EBEYE DOCK	COASTAL	10-28-13	1341		0	1	1	10 ¹⁰⁻²⁶⁻¹² 100 NM	
6	EKOJAJA	COASTAL	10-28-13	1352		3	1	4	40	
7	TEIKLE	COASTAL	10-28-13	1401		4	11	150	1500	
8	OUTFALL I	COASTAL	10-28-13	1421		3	0	3	30	
9	DUMP SITE	COASTAL	10-28-13	1435		8	1	10	100	
Negative Blank Control										
			10-28-13	1625		0	0	0	0	

Sampler: Nathan Received by: KAWA Date/Time: 10/30 1500 Lab analyst: Nathan

Incubation start date/time: 10-28-13/ 1625
 Expected read out date/time: 10-29-13/ 1625
 Actual read out date/time: 10-30-13/ 0920

Date approved by Lab Manager: Kawa Signature: [Signature]

Enterolert Form: Revised Jan 24, 2013

Standard for Marine Recreational Water Quality is 104MPN/100mL

Enterolert Lot #: EJ524
 Expiration Date: 23 JUN 2014
 *After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y
 *Did you prepare the negative blank for comparison? (Y/N) Y



DEPARTMENT OF ENVIRONMENTAL PROTECTION
 ENVIRONMENTAL PROTECTION AUTHORITY
 101 E. W. PARK
 Honolulu, Hawaii 96813
 Phone: (808) 586-2500 Fax: (808) 586-2501 Email: ehs@dep.state.hi.us

Sample Collection and Analytical Record: Total Coliform and E. coli in Drinking Water by Colilert-24 Method.

Sample Collection Record					Results for Quanti-tray 2000					FAC (mg/L)	Comments	
Lab #	Location	Type	Date	Time	Temp. °C	Total coliform		E-coli				
						# pos (+) wells	MPN/100 mL	Large	Small			# pos (+) wells
1	KEBELAK (MID)	C-WATER	11-11-13	1007		0	0	0	0	0	0	
2	ATRINA (TOBIKLE) #2	C-WATER	11-11-13	1015		44	1300	4	1	5		
3	" #1 #2	C-WATER	11-11-13	1016		44	2400	48	18	250		
4	KEVINSIN (DRIKLE)	C-WATER	11-11-13	1019		0	0	0	0	0		
5	WAYNE LARI	C-WATER	11-11-13	1030		1	1	0	0	0		
6	WAYNE (LOIKOLAK)	C-WATER	11-11-13	1045		0	0	0	0	0		
7	PERMEN C (BOUJ)	C-WATER	11-11-13	1056		24	36	0	0	0		

Sampler: NATHAN Received by: Ford Date/Time: 11/15 1500 Lab analyst: NATHAN

Incubation start date/time: 11-11-13 / 1100
 Expected read out date/time: 11-12-13 / 1100
 Actual read out date/time: 11-12-13 / 1200

Date approved by Lab Manager: _____ Signature: _____

Colilert-24 Form: Revised Jan. 24, 2013

Colilert Lot #: BJ416B
 Expiration Date: 13 APR 2014
 *After adding Colilert to samples and shaking, are all samples lighter yellow than comparator? (Y/N) Y
 *After adding Colilert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y

Colilert Q-Tray 2000 Comparator
 Expiration Date: _____



Republic of Marshall Islands
 Environmental Protection Agency
 Water Quality Laboratory
 P.O. Box 5223, Ebeye, Marshall Islands MH96970
 Phone: (692) 329-3787/4787 Fax: (692)329-3787

Sample Collection and Analytical Record: Enterococci in Coastal Waters by Enterolert Method

Lab #	Sample Collection Record						Results for Quanti-tray 2000 Enterococci				Comments
	Location	Type	Date	Time	Temp. °C	# pos (+) wells		MPN (actual x 10)	MPN (diluted)	MPN (actual x 10)	
						Large	Small				
1	BEACH PARK	COASTAL	11-12-13	1305		21	3	310	31	310	
2	BAREN WETO	COASTAL	11-12-13	1311		24	5	390	39	390	
3	LOLE WETO	COASTAL	11-12-13	1330		31	17	760	76	760	
4	MONNIN WETO	COASTAL	11-12-13	1341		30	15	690	69	690	
5	DOCK	COASTAL	11-12-13	1346		41	27	160	16	160	
6	EDOKUJAJA WETO	COASTAL	11-12-13	1357		36	16	940	94	940	
7	TOBIKUE WETO	COASTAL	11-12-13	1401		34	12	810	81	810	
8	OUTPALL	COASTAL	11-12-13	1409		42	20	1500	150	1500	
9	DUMPSITE	COASTAL	11-12-13	1430		39	16	1100	110	1100	
	Negative Blank Control		11-12-13			-	-	-	-	-	

Sampler: Nathan Received by: KAWA Date/Time: 11/15 1500 Lab analyst: Nathan

Incubation start date/time: 11-12-13 / 1625

Expected read out date/time: 11-13-13 / 1625

Actual read out date/time: 11-14-13 /

Date approved by Lab Manager: KAWA Signature: [Signature]

Enterolert Form: Revised Jan 24, 2013

Standard for Marine Recreational Water Quality is 104MPN/100ml

Enterolert Lot #: EJS24
 Expiration Date: 23 JUN 2014
 *After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y
 *Did you prepare the negative blank for comparison? (Y/N) Y



**Republic of Marshall Islands
Environmental Protection Agency
Water Quality Laboratory**

Sample Collection and Analytical Record: *Enterococci* in Coastal Waters by Enterolert Method

Sample Collection Record					Results for Quanti-tray 2000				Comments
					Enterococci				
Lab #	Location	Type	Date	Time	# pos (+) wells		MPN (diluted)	MPN (actual x 10)	
					Large	Small			
0649	#1 Beach Park	COASTAL	8-15-11	900	19	1	25	250	
0650	#2 Bation	COASTAL	8-15-11	900	5	1	6	60	
0651	#3 Lole	COASTAL	8-15-11	900	3	0	3	30	
0652	#4 Mon Nin	COASTAL	8-15-11	900	6	0	6	60	
0653	#5 Ebaye Dock	COASTAL	8-15-11	900	0	0	0	0	
0654	#6 Eokwojager	COASTAL	8-15-11	900	1	0	1	10	
0655	#7 Totikle	COASTAL	8-15-11	900	49	26	490	4900	
0656	#8 Outfall #1	COASTAL	8-15-11	900	17	2	23	230	
0657	#9 Outfall #2	COASTAL	8-15-11	900	8	2	11	110	
0658	#10 Public Dump	COASTAL	8-15-11	900	2	0	2	20	
Negative Blank Control			8-15-11	1900	-	-	-	NEGATIVE	

Sampler: NATHAN M.

Lab analyst: DOUGLAS

Incubation start date/time: 8-15-11 1 1930

Expected read out date/time: 8-16-11 1 1930

Actual read out date/time: 8-16-11 1 1930

Date approved by Lab Manager: 8/17/11 Signature: Abraham Hebing

Last updated: Nov. 5, 2010 FAS Lab Cert

Enterolert Lot #: HFS108

Expiration Date: 04 Nov 2011

*After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y

*Did you prepare the negative blank for comparison? (Y/N) Y



Republic of Marshall Islands
Environmental Protection Agency
Water Quality Laboratory

Sample Collection and Analytical Record: *Enterococci* in Coastal Waters by Enterolert Method

Sample Collection Record *					Results for Quanti-tray 2000				Comments
					Enterococci				
Lab #	Location	Type	Date	Time	# pos (+) wells		MPN (diluted)	MPN (actual x 10)	
					Large	Small			
1118-12	BEACH PARK	COASTAL	1-20-12	1400	0	0	0	0	
1119-12	BATIEN	COASTAL	1-20-12	1405	49	18	310	3100	
1120-12	LOLE	COASTAL	1-20-12	1408	37	5	73	730	
1121-12	MONNIN	COASTAL	1-20-12	1415	49	44	1600	16000	
1122-12	EBEYE DOCK	COASTAL	1-20-12	1418	0	0	0	0	
1123-12	EOKWOJAJAR	COASTAL	1-20-12	1420	49	25	460	4600	
1124-12	TOBIKLE	COASTAL	1-20-12	1425	45	13	150	1500	
1125-12	OUTFALL I	COASTAL	1-20-12	1430	11	2	13	130	
1126-12	OUTFALL II	COASTAL	1-20-12	1435	29	7	53	530	
1127-12	DUMP SITE	COASTAL	1-20-12	1445	49	16	280	2800	
Negative Blank Control			1-21-12	1000	-	-	-	NEGATIVE	

Sampler: NATHAN

Lab analyst: ABE

Incubation start date/time: 1-21-12/1230

Expected read out date/time: 1-22-12/1230

Actual read out date/time: 1-22-12/1530

Date approved by Lab Manager: 1-22-12 Signature: [Signature]

Last updated: Nov. 5, 2010 FAS Lab Cert

Enterolert Lot #: JG 728
 Expiration Date: 08 OCT '12
 *After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y
 *Did you prepare the negative blank for comparison? (Y/N) Y

* Samples put in cooler w/ ICE - Refrigerated overnight.



Sample Collection and Analytical Record: *Enterococci* in Coastal Waters by Enterolert Method

Sample Collection Record					Results for Quanti-tray 2000				Comments
					Enterococci				
Lab #	Location	Type	Date	Time	# pos (+) wells		MPN (diluted)	MPN (actual x 10)	
					Large	Small			
0178-12	EBEYE DUMP	COASTAL	2-10-12	1335	0	0	0	0	
0179-12	OUTFALL II	COASTAL	2-10-12	1345	2	0	2	20 *	Surface samples
0180-12	OUTFALL I	COASTAL	2-10-12	1347	0	0	0	0 *	Surface samples
0181-12	TOBIKLE LAGN	COASTAL	2-10-12	1350	0	0	0	0	
0182-12	EOKUWAJA	COASTAL	2-10-12	1355	1	0	1	10	
0183-12	EBEYE DOCK	COASTAL	2-10-12	1357	0	0	0	0	
0184-12	MONNIN LAGN.	COASTAL	2-10-12	1400	0	0	0	0	
0185-12	LOLE LAGN.	COASTAL	2-10-12	1405	1	0	1	10	
0186-12	BATIEN LAGN.	COASTAL	2-10-12	1410	0	0	0	0	
0187-12	BEACH PARK	COASTAL	2-10-12	1415	0	0	0	0	
Negative Blank Control			2-11-12	1130	-	-	-	NEGATIVE	P1/2

Sampler: NATHAN MATAUTO

Lab analyst: ABE

Incubation start date/time: 2-11-12 / 1200

Expected read out date/time: 2-12-12 / 1200

Actual read out date/time: 2-12-12 / 1230

Date approved by Lab Manager: 2-12-12 Signature: Graham Hickey

Standard for Marine Water Quality is
104MPN/100mL

Enterolert Lot #: JG 728

Expiration Date: 08 OCT. 2012

*After adding Enterolert to samples and shaking, is media completely dissolved in all samples? (Y/N) Y

*Did you prepare the negative blank for comparison? (Y/N) Y