

Client: **COOK ISLAND GOVERNMENT (MOIP / NZAP)**
 Project: **NORTHERN GROUP WATER HARVESTING PROJECT**
 Date: Oct 2012

To:			
Principal	Donye Numa	(DM)	Secretary / MOIP
NZ Aid Programme	Maureen Hilyard	(MH)	Development Programme Coordinator
CIG Aid Management	Jim Armistead	(JA)	Secretary/MFEM Aid Management AMD
Principal Rep	Louis Teiti	(LT)	Infrastructure TA MOIP
CIG Health Services	Tata Vaeau	(TV)	Health Officer
CIG Internal Affairs	Bredina Drollet	(BD)	Secretary / MIA
Contractor	Keta Williams	(KW)	RVK Contractors (RVK) / Director
From:			
Project Manager	Romani Katoa	(RK)	ROMANISDESIGN (RD) / Director

1 Introduction

Contract Stage – Project Completion:

6 months from completion of construction works, Defects Period ended on the following dates:

Nassau	-	24 April 2012
Pukapuka	-	25 May 2012
Penrhyn	-	19 June 2012
Rakahanga	-	23 June 2012

2 Project Matters & Update

a) **Project Completed:** For Nassau, Pukapuka, Penrhyn, Rakahanga and Nassau

3 Contract Processes

a) **Contractor Advance Payments & Claims –**

To date the four payments have been made to RVK Contractors.
 Payments to date total **\$1,689,119.82**

b) **Onsite Work Assessment** Have received sheets from Nassau and Penryhn. Some issues with completion of Work Assessment sheets by on island supervisors due to communication and misinterpretation of completing forms. Due to Nassau shipping schedules it has been difficult to get final signatures and all tasks have been completed and checked by Onsite Supervisor. Confirmation of works has been reconciled with final costings for Nassau, Penryhn, Pukapuka and Rakahanga. Nassau assessment sheets need to be returned for final signatures by residents.

c) **Retention:** – \$187,680 of the total Contract Amount has still not been paid to RVK Contractors. Sixty percent of the retention, \$112,607.98 was to be immediately payable to RVK Contractors at completion of works. The remaining forty percent of the total retention \$75,071.98 is payable at the conclusion of the defects liability period which was on the 23 June 201.

d) All payments to RD are not current.

PUKAPUKA

Yato:

- Population at time of installation - 176
- A total of 38 houses were completed including houses with partial re-roof and complete new roofing.
- There were 21 x 6kL and 36 x 3kL water tanks installed providing a total capacity of 234,000 litres for Yato Village.
- 750.93m² of roofing iron
- 35 First Flush systems
- 388.50 lineal metres of fascia board and pvc spouting
- Total Cost for Yato: \$248,728.95

Roto:

- Population at time of installation - 195
- A total of 45 houses were completed including houses with partial re-roof and complete new roofing.
- There were 39 x 6kL and 22 x 3kL water tanks installed providing a total capacity of 300,000 litres for Roto Village.
- 1,818.08m² of roofing iron
- 48 First Flush systems
- 515.80 lineal metres of fascia board and pvc spouting
- Total Cost for Roto: \$326,495.75

Ngake:

- Population at time of installation - 148
- A total of 36 houses were completed including houses with partial re-roof and complete new roofing.
- There were 28 x 6kL and 14 x 3kL water tanks installed providing a total capacity of 300,000 litres for Roto Village.
- 1,282m² of roofing iron
- 35 First Flush systems
- 450.20 lineal metres of fascia board and pvc spouting
- Total Cost for Ngake: \$224,547.15

Leftover Tanks for Pukapuka

- Yato - \$36,063.00
- Roto - \$12,021.00
- Ngake - \$36,063.00

NASSAU

- Population at time of installation - 116
- A total of 31 houses were completed including houses with partial re-roof and complete new roofing.
- There were 34 x 6kL water tanks installed providing a total capacity of 186,000 litres for Nassau.
- 546.05m² of roofing iron
- 32 First Flush systems
- 262.00 lineal metres of fascia board and pvc spouting
- Total Cost for Nassau: \$208,474.08

RAKAHANGA

- Population at time of installation - 83
- A total of 45 houses were completed including houses with partial re-roof and complete new roofing.
- There were 48 x 6kL water tanks installed providing a total capacity of 288,000 litres for Rakahanga.
- 5574.80m² of roofing iron
- 45 First Flush systems
- 582.17 lineal metres of fascia board and 562.66 lineal metres of pvc spouting
- Total Cost for Rakahanga: \$472,110.042

PENRYHN

Omoka and Tetautua:

- Population at time of installation - 176
- A total of 65 houses were completed including houses with partial re-roof and complete new roofing.
- There were 55 x 6kL and 20 x 3kL water tanks installed providing a total capacity of 390,000 litres for Penryhn.
- 57m² of roofing iron
- 65 First Flush systems
- 709.5.50 lineal metres of fascia board and pvc spouting
- Total Cost for Penryhn: \$336,817.78

Leftover Tanks for Penryhn

- Omoka & Tetautua - \$24,042.00

Kia Manuia,

Romani Katoa
Project Manager
ROMANISDESIGN LTD

BUDGET SUMMARY OF CONSTRUCTION WORKS		
ITEM	ACTUAL ONSITE COSTINGS PER ISLAND	
1	PUKAPUKA	
	Yato	\$ 248,728.95
	Ngake	\$ 224,547.15
	Roto	\$ 326,495.75
2	NASSAU	\$ 208,474.08
3	RAKAHANGA	\$ 472,110.42
4	PENRYHN	\$ 336,817.78
	Tetautua	
	Omoka	
	Total Measure and Value	\$ 1,817,174.13
	Total Contract Price	\$ 1,876,799.79
	Difference from Contract Price	-\$ 59,625.66
	LEFTOVER TANKS	
	Pukapuka	
	Yato	\$ 36,063.00
	Roto	\$ 12,021.00
	Ngake	\$ 36,063.00
	Nassau	-
	Rakahanga	-
	Penryhn	
	Omoka	\$ 16,028.00
	Tetautua	\$ 8,014.00
	Total Leftover Tanks Cost	\$ 108,189.00
	Total Leftover Number of Tanks	27
	Total Litres	162,000.00
	Rates used for Project	Rate
	3,000L	\$3,197
	6,000L	\$4,007
	Fascia Board & Spouting	\$39
	First Flush System	\$75
	Roofing Iron m2	\$37.50

Building Ref No.	Childrer	PUKAPUKA YATO VILLAGE	Tanks Rqd		Roofing Iron Area (m2)	First Flush System	Facia board lm	Spouting lm	Down Pipes Length (6m)	TOTAL COST
			6000L	3000L						
PUK 1	1	Apitai Teinaki *	1			1	11	11	1	4539.5
PUK 2	5	Aretio Pira	1			1	13.2	13.2	1	4625.7
PUK 3	12	Puiki Paniani		2		1	9.9	9.9	1	6883.6
PUK 5	2	Katia Utarenga		2		1	9	9	1	6848.5
PUK 8	3	Makonia Boaza	1			1	11.8	11.8	1	4570.7
PUK 9	2	Manila Maika Akariri	1			1	11.7	11.7	1	4566.8
PUK 10	9	Manila Matenga	1	1		1	11.7	11.7	1	7763.8
PUK 11	6	Mare Daniel	1			1	11	11	1	4568
PUK 12	2	Ngarupe Mataito	1			1	10.2	10.2	1	4508.3
PUK 13	2	Ngatokorua Purotu	1			1	5.5	5.5	1	4293.5
PUK 14	6	Ngutu Ngutu - needs roofing iron sheets	1			1	4.5	4.5	1	4238.75
PUK 15	3	Patuki Tengere	1							4007
PUK 16	5	Punga Punga	1			1	17.7	17.7	1	4800.8
PUK 17	8	Rito Tinokura		3		1	11.5	11.5	1	10,143
PUK 18	4	Rotoika Tengere	1			1	11.5	11.5	1	4559
PUK 19	7	Ruarau Iakopo	1			1	9.8	9.8	1	4082
PUK 20	7	Rukuaro Marukore		3		1	13.6	13.6	1	10224.9
PUK 21	6	Tapa Mataora		2		1	13.3	13.3	1	7016.2
PUK 22	5	Tarapu William		2		1	9.9	9.9	1	6883.6
PUK 23	5	Teau Pana kiliuyi		2		1	6.3	6.3	1	6743.2
PUK 24	8	Tekere Pereti		2		1	9.5	9.5	1	6868
PUK 26	0	Tupea Mataora - SAME AS PUK82								
PUK 27	3	Tutai Ravarua - Karemoana Alice	1				10	10		4500.5
PUK 28	5	Tutau Punga	1			1	9.7	9.7	1	4488.8
PUK 30	6	Utarenga Taumaina		2		1	8.1	8.1	1	6813.4
PUK 32	2	Woetai Okotai		2		1	12.3	12.3	1	4590.2
PUK 33	2	Yingonge Purotu	1			1	11.3	11.3	1	4551.2
PUK 34	5	Yitiri Yitiri		2		1	10.7	10.7	1	6914.8
*	4	Toru Taunga	1			1	10.1	10.1	1	4504.4
*	1	Pareute Makirai	1			1	11.3	11.3	1	4551.2
RESIDENTIAL HOUSES - Reroofing and water tanks										
PUK 35	6	Joe Angaino	1		83.42	1	9.9	9.9	1	12,801.85
PUK 36	6	Boaza Boaza	1		130	1	12.6	12.6	1	12,073.90
PUK 37	5	Rangiura Walemaki	1		40.7	1	8	8	1	5948.75
PUK 38	1	Rautana Robati		2	100	1	12.3	12.3	1	15601.45
PUK 39	3	Tamangaro Timoti		2	130	1	13	13	1	7994.5
PUK 40	11	Tinokura Utarenga		3	149.11	1	20.2	20.2	1	16,073.55
PUK 41	4	Vave Arie		2	18.7	1	6.5	6.5	1	7312
PUK 42	4	Yeutu Katia		2	99	1	9.9	9.9	1	7273.6
TOTALS										
38	176	Total	21	36	750.93	35	388.5	388.5	35	\$ 248,728.95

LEFTOVER TANKS		QTY	AMOUNT
Toru Taunga		1	4007
Mairaro		1	4007
Tutu		1	4007
Akatu		1	4007
Kupa		1	4007
Ritawa		1	4007
Akaruru		1	4007
Maina		1	4007
Kare		1	4007

TOTAL COST OF LEFTOVER TANKS	9	\$ 36,063.00
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Building Ref No.	No of People	Island / village Pukapuka - Roto	Tanks Rqd 6000L 3000L	Roofing iron Area (m2)	First Flush	Facia board lm	Spouting lm	D/Ps L (6m)	TOTAL COST	
RESIDENTIAL HOUSES - need water tanks, fascia board, spouting										
PUK 42	2	Apitai Teinaki		120	1	12.5	12.5	1	6985.00	
PUK 43	7	Aporo Mataora	1	144	1	11.2	11.2	1	4547.30	
PUK 44	9	Arona Tariau	1		1	13.9	13.9	1	4652.60	
PUK 45	7	Aruia Lolani	1		1	11.8	11.8	1	4570.70	
PUK 46	6	Ataera Ataera	1		1	8.1	8.1	1	4426.40	
PUK 47	2	Atiaiu Tutai	1		1	8.8	8.8	1	4453.70	
PUK 48	3	Eraiti Teinaki		2	1	10.2	10.2	1	6895.30	
PUK 49	2	Ieremia Pori	1		1	13	13	1	4617.50	
PUK 50	1	Issac Elisa	1		1	12.2	12.2	1	4586.30	
PUK 51	3	James Auwola	1		1	13.1	13.1	1	4621.40	
PUK 52	4	Maia Rangī	1		1	9	9	1	4461.90	
PUK 53	5	Manea Opo	1		1	9.6	9.6	1	4484.90	
PUK 54	4	Mangere Maro - reroofed one side only	1	140	1	12.8	12.8	1	8454.70	
PUK 55	3	Manongi Tiro	1		1	12.6	12.6	1	4601.90	
PUK 56	5	Manurere Opo- needs roofing	1		1	8.3	8.3	1	4434.20	
PUK 57	2	Marurai Marurai	1		1	8	8	1	4422.50	
PUK 58	2	Mose Manutai	1		1	9.6	9.6	1	4484.90	
PUK 59	2	Ngarui Taunga	1		1	10.8	10.8	1	4532.10	
PUK 60	8	Ngereteina Opo	1	1	1	10.4	10.4	1	7713.10	
PUK 61	5	Paulo Pakitonga	1		1	12.4	12.4	1	4594.10	
PUK 62	4	Peua Taingauru	1		1	11.4	11.4	1	4554.90	
PUK 63	5	Potokotai Kairua		2	1	12.4	12.4	1	6981.10	
PUK 64	8	Tavero Robati		3	1	11.1	11.1	1	10127.40	
PUK 65	6	Teopenga Nio		2	1	14.3	14.3	1	7055.20	
PUK 66	8	Tere William	1	1	1	17	17	1	7970.50	
PUK 67	1	Tiaki Wuatai (new hse)	1		1	6	6	1	4344.50	
PUK 68	5	Tinirau Kavana Yeutu		2	1	14.2	14.2	1	7051.30	
PUK 69	4	Titonga Henry	1		1	12	12	1	4578.50	
PUK 70	6	Tukia Mataora	1		1	7.8	7.8	1	4414.70	
PUK 71	0	Vakaula Opo	1		1	8.7	8.7	1	4449.80	
PUK 72	5	Vavia Mataora	1		1	10.5	10.5	1	4520.00	
PUK 73	4	William William	1		1	8	8	1	4422.50	
*		Pareute Makirai	1		1	11.3	11.3	1	4551.20	
*	4	Beniamina Tengere	1		1	6	6	1	4344.50	
RESIDENTIAL HOUSES - REROOFING										
PUK 74	3	Rakera Aumatangi	1	46	1	7.1	7.1	1	7369.40	
PUK 75	2	Maoake Purotu		2	1	8.3	8.3	1	9728.20	
PUK 76	1	Tuiva Karowia		2	1	10.8	10.8	1	9645.70	
PUK 77	2	Tawaia - Temoana Kiiiki	1	20.4		11.4	11.4		5167.10	
PUK 78	4	Mataa Aumatangi - provided own roofing. Needs	1		1	11.8	11.8	1	4570.70	
PUK 79	4	Jnr PengaTautani Tinirau	1	96	2	9.1	9.1	2	8560.40	
PUK 80	6	Wuatai Wuatai	1	176.8	1	13.4	13.4	1	11938.10	
PUK 81	1	Don Obeta		2	1	8.5	8.5	1	9286.00	
PUK 82	5	Tupea Mataora/ Tapaki	1	108.3	1	10	10	1	8505.50	
PUK 83	11	Tai Ravarua	1	1	1	15.9	15.9	1	20884.45	
PUK 84	4	Vai Peua	1	216	1	9.8	9.8	1	13042.70	
PUK 85	3	John Hagai	1	212.02	1	12.4	12.4	1	11816.90	
PUK 86	2	Taki te ngutu	1	272.16	1	9.5	9.5	1	16379.00	
PUK 87	5	Vao Tiare	1	51	1	8.8	8.8	1	7695.00	
45	195	TOTALS	39	22	1818.08	48	515.8	515.8	47	\$ 326,495.75

LEFTOVER TANKS	QTY	AMOUNT
Toa	1	4007
Beni	1	4007
Mama Koyi	1	4007

TOTAL COST OF LEFTOVER TANKS	3	\$ 12,021.00
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Building Ref No.	No of people	Island / village Pukapuka / Ngake	Tanks Rqd 6000L	3000L	Roof Iron Area (m2)	First Flush System	Fascia board Im	Spouting Im	Down Pipes Length 6(m)	TOTAL COST
RESIDENTIAL HOUSES - need water tanks, fascia board, spouting										
PUK 120	2	Timata Amosa (Amosa Amosa)	1			1	13.1	13.1	1	4621.4
PUK 91	2	Akima Taikakara	1			1	10.3	10.3	1	4512.2
PUK 92	1	Aneterea Petero	1			1	13.2	13.2	1	4625.3
PUK 93	7	Auwia Tapuni	1			1	9.8	9.8	1	4492.7
PUK 94	2	Casey Poila		2		1	11	11	1	6926.5
PUK 95	4	Charlie Frisbie		2		1	6	6	1	6965.5
PUK 96	6	Chief Walemaki	1			1	14.7	14.7	1	4608.8
PUK 97	0	Inapa Auwia * same as Auwia Tapuni PUK 93								
PUK 98	4	Kalito Tauia	1			1	15.2	15.2	1	4703.3
PUK 99	3	Kainga Malo	1			1	10	10	1	4500.5
PUK 100	2	Ketula Vila	1			1	11.4	11.4	1	4555.1
PUK 101	7	Lewi Walewaoa		2		1	9.8	9.8	1	6879.7
PUK 102	5	Maru Marukore	1			1	14.2	14.2	1	4664.3
PUK 103	8	Matatia Taikakara	1			1	17.2	17.2	1	4781.3
PUK 104	3	Ngarima Nooroto	1			1	13.4	13.4	1	4558.1
PUK 105	3	Paleula Katoa	1			1	14.6	14.6	1	4651.4
PUK 106	6	Penese Polia		2		1	10	10	1	6883.6
PUK 107	3	Pereo Nemeti	1			1	9.9	9.9	1	4496.15
PUK 108	1	Poila Arie		2		1	9.6	9.6	1	6871.9
PUK 109	4	Pone Apiuta	1			1	11	11	1	4568
PUK 110	8	Puapii Ravarua	1			1	15.6	15.6	1	4718.9
PUK 111	4	Rimapeni Paani	1			1	9.8	9.8	1	4492.7
PUK 112	10	Rubena Ruarau	1			1	11.7	11.7	1	7763.8
PUK 113	5	Tearo Tinomana	1			1	10	10	1	4344.5
PUK 114	3	Tekie Tauia	1			1	9.4	9.4	1	4477.1
PUK 115	6	Terepai Topetai	1			1	12.3	12.3	1	4590.2
PUK 116	6	Tinga Tapuni *	1			1	10.7	10.7	1	4527.8
PUK 117	5	Tinima Teingoa		2		1	7	7	1	4539.5
PUK 118	1	Toni Pira - Riata Marukore	1			1	11.3	11.3	1	4551.2
PUK 119	5	Walewaoa Teingoa		2		1	14.2	14.2	1	4664.3
PUK 124	4	Rupena Rupena * same as PUK 112 no re-roof								
RESIDENTIAL HOUSES - REROOFING										
PUK 90	3	Amosa Puluata re-roofed	1		194	1	13.8	13.8	1	12832.7
PUK 121	4	Nooroto Teapa	1		250.8	1	14	14	1	14989
PUK 122	5	Kililia Tepa (Katipale)	1		151.2	1	21.4	21.4	1	12370.8
PUK 123	11	Iotama Ravarua	1		184	1	41	41	1	13,878.00
PUK 125	7	Vairoa Vairoa (Areta)	1		138	1	10	10	1	10,627.50
PUK 126	6	Kautoki Katoa	1		364	1	13.6	13.6	1	12,313.40
36	148	TOTALS	28	14	1282	35	450.2	450.2	35	\$ 224,547.15

LEFTOVER TANKS	QTY	AMOUNT
Opo opo	1	4007
Tiaki Jack	1	4007
Koree Tinga	1	4007
Poyila Poyila	1	4007
Papino Akaruru	1	4007
Katipare Viggo	1	4007
Yipouri	1	4007
Makuare	1	4007
Tengere William	1	4007

TOTAL COST OF LEFTOVER TANKS	9	\$ 36,063.00
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Building Ref No.	No. of people	Island / village Rakahanga	Tanks Rqd		Roof Iron Area (m2)	First Flush System	Facia board Im	Spouting Im	Down Pipes Length (6m)	Total Cost
			6000L	3000L						
RESIDENTIAL HOUSES - need water tanks, fascia board, spouting, first flush										
RAK 1	2	Banapa Tupou	1			1	17.1	17.1	1	4774.4
RAK 2	3	Catholic residence	1			1	10.7	10.7	1	4527.8
RAK 3		CICC Residence	1			1	17.1	17.1		4777.4
RAK 4	1	Edward Peterson	1			1	12	12	1	4578.5
RAK 5		Takipo Hererai	1			1	12	12	1	4578.5
RAK 6	2	Kaingata Timoti	1			1		8.7	1	4358.45
RAK 7	5	Lai Narayan	1			1		13	1	4481
RAK 8	2	Mahia Tupou	1			1	8.3	8.3	1	4434.2
RAK 9	2	Mita Aporo	1			1	8.1	8.1	1	4426.4
RAK 10	1	Ngaro Koteka	1			1	14.34	14.34	1	4669.76
RAK 11	2	Philip Reubena jnr	1			1		13.56		4496.96
RAK 12	1	Repaio Aporo - leftover roofing	2		142.11	1	14.5	14.5	1	14244.75
RAK 13	1	Sema Peter	1			1	8.7	8.7	1	4449.8
RAK 14		SDA Residence	1			1		11.53		4439.1
RAK 15	2	Takai Temu	1			1		11.6	1	4543.7
RAK 16	2	Taura Temu	1			1	13.56	13.56	1	4639.34
RAK 17	3	Temu Hagai - leftover roofing	1		184.82	1	42	14.5	1	12749.9
RAK 18	1	Tere Teinaki	1			1	14.8	14.8	1	4687.7
RAK 19	4	Tianini Metuasala - single old lady staying inside	1		216.2	1	13.51	13.51	1	13877.39
RAK 20	2	Tomoko Ben	1			1	13.5	13.5	1	4637
RAK 21	9	Toto Setifano	1			1	12.36	12.36	1	4592.56
RAK 22	1	Vaiteru Makira	1			1	16.5	16.5	1	4754
RESIDENTIAL HOUSES - REROOFING										
RAK 23	4	Amosa / David Greig	1		329.32	1	18	14.6	1	18932.6
RAK 24	3	Anete Aratangi	1		109.2	1	8.7	8.7	1	9994.4
RAK 25	5	Aporo Piho	1		266.8	1	13.1	13.1	1	17062.4
RAK 26	2	Hagai Takai	1		163.4	1	12	11.6	1	13196.6
RAK 27	4	Kimiora takai	1		314.6	1	12	8.7	1	19176.11
RAK 28	1	Kimo Temu	1		271.4	1	12	12	1	17006
RAK 29	2	Leitu Akaloa	1		197.2	1	12.1	12.1	1	13125.8
RAK 30	3	Neti Tarau	2		184	1	27.2	27.2	1	14807.3
RAK 31	6	Ngatangata Takai	1		138.18	1	21	21	1	14600.65
RAK 32	4	Nitika Tuteru	1		131.04	1	18	16.5	1	10091.75
RAK 33	5	Paolo Pirato	1		172.92	1	16	13.2	1	11384
RAK 34	2	Philip Reubena snr	1		257.1	1	18	14.5	1	16386.8
RAK 35	2	Pokipoki Flyriver	1		147.45	1	12	9.7	1	11190.13
RAK 36	4	Punatau mataio	1		163	1	30	9.1	1	14325.35
RAK 37	2	Robert Sema	1		294.6	1	15	11.6	1	18274.1
RAK 38	2	Rua Piho	1		269.4	1	9.5	9.5	1	15421.4
RAK 39	1	Semo Ruarua	1		339.06	1	14.5	14.5	1	19977.05
RAK 40	2	Taunga Toka	1		324	1	12	8.7	1	19961.57
RAK 41	1	Teokatai Greig	1		268.2	1	14	11.6	1	16686.3
RAK 42	1	Temuvaine Narayan	1		305.6	1	14	11.6	1	18074.3
RAK 43	2	Toka Tupou	1		357.2	1	12	11.6	1	20464.1
RAK 44	1	Tianevea Vaiteru - roofing by client. Project provided 4/7m sheets	1		28	1	12	11.6	1	6210.6
RAK 45	1	Island Council buildings no roofing supplied	2			1				8042.5
1										
45	83	TOTALS	48	0	5574.8	45	582.17	562.66	41	\$ 472,110.42

Building Ref No.	No of people	Island / village Nassau	Tanks Rqd		Roof Iron Area (m2)	First Flush System	Fascia board lm	Spouting lm	Down Pipes Length (6m)	COST
			6000L	3000L						
RESIDENTIAL HOUSES - need water tanks, fascia board, spouting										
NAS 1	6	Poila Poila	1			1	13	13	1	4617.5
NAS 2	10	Topetai Neiao	1			1	12	12	1	4578.5
NAS 3	12	Tuakatau wuatai	1			1	10	10	1	4500.5
NAS 4	4	Course Topetai	1			1	13	13	1	4617.5
NAS 5	3	Mark Jack	1			1	10	10	1	4500.5
NAS 6	6	Tuaine William	1			1	12	12	1	4578.5
NAS 7	8	Tewola Jack	1			1	12	12	1	4578.5
NAS 8	6	Repeta George	1			1	11	11	1	4539.5
NAS 9	4	Roaiti Vailoa	1			1	5	5	1	4305.5
NAS 10	6	Arona Nio	1			1	11	11	1	4539.5
NAS 11	4	Mama Litia	1			1	7	7	1	4383.5
NEW HOUSES TO BE REROOFED										
NAS 12	3	Kumara Papitai	1		77.4949	1	15	15	1	8864.67
NAS 13	7	Tuaine Tuatai	1		78.554	1	15	15	1	10195.91
PORA HOUSES (thatched houses) 6x5m Lean-To										
NAS 14	1	Karangiri Piripo	1		30	1	6	6	1	7854.5
NAS 15	4	Ngaulu Topetai	1		30	1	6	6	1	7854.5
NAS 16	1	Mati Wuatai	1		30	1	6	6	1	7854.5
NAS 17	1	Lameka Tewola	1		30	1	6	6	1	7854.5
NAS 18	3	Tanetua William	1		30	1	6	6	1	7854.5
NAS 19	3	Leleau Ruarau	1		30	1	6	6	1	7854.5
NAS 20	2	Tumoe Rabana	1		30	1	6	6	1	7854.5
NAS 21	1	Avavete Vila	1		30	1	6	6	1	7854.5
NAS 22	3	Mexico Jack	1		30	1	6	6	1	7854.5
NAS 23	5	Yvonne Neiao	1		30	1	6	6	1	7854.5
NAS 24	3	Terepai	1		30	1	6	6	1	7854.5
NAS 25	6	Veveia Ayoka	1		30	1	6	6	1	7854.5
NAS 26	4	Tiruano Angoika	1		30	1	6	6	1	7854.5
GOVERNMENT AND COMMUNITY BUILDINGS										
NAS 27		Nassau school	2			2	16	16	2	8741.5
NAS 28		Nassau Admin Office	1			1	3	3	1	4227.5
NAS 29		Nassau SDA	1			1	6	6	1	4344.5
NAS 30		Nassau TV Station	1			1	4	4	1	4266.5
NAS 31		Nassau Council (Wawa patch)	3			1	9	9	1	15985.5
31	116	TOTALS	34	0	546.0489	32	262	262	32	\$ 208,474.08

\$ 37,565.50 Total cost of leftover tanks installed by RVK Contractors

Building Ref No.	Occupants		Island / village Penryhn / Omoka Village	Tank Rqd		Roof Dimension		Fascia	Spouting	Downpipes length (6m)	Total Cost
	Adults	Child		6000L	3000L	Width (m)	Area (m2)				
RESIDENTIAL HOUSES - need water tanks, fascia board, spouting											
PEN 1	6	1	Abela William	1		10	36	10	10	1	4500.5
PEN 2	3	6	Alex Maretapu	1		12.5	54	12.5	13	1	4598
PEN 3	2		Andrew Vaeau	1		13.9	196	13.9	14	1	4652.6
PEN 4	3		Arake Tonitara	1		9.5	34	9.5	10	1	4481
PEN 5	3	3	Ben Samuela	1		14.3	0	14.3	14	1	4668.2
PEN 6	4		Bill Marsters		2	13.2	111	8	8	1	6809.5
PEN 7	1		Kirikava Moerangi	1		4.8	12	4.8	5	1	4297.7
PEN 8	2	3	Manata Akapurua	1		10	91	10	10	1	4500.5
PEN 9	3	3	Mita Soa	1		14.9	153	14.9	15	1	4691.6
PEN 10	5	5	One Brother Joseph	1		13.35	49	13.3	13	1	4629.5
PEN 11	5	4	Pahu Toka	1		12.3	75	12.3	12	1	4590.2
PEN 12	4		Warwick Latham	1		14.33	79	14.3	14	1	4668.2
PEN 13	2		William Tekena		2	6.7	53	6.7	7	1	6758.8
PEN 14	2	5	Aru William	1		13.6	141	13.6	14	1	4640.9
PEN 15	2	2	Tutavake Andrew	1		13.3	146	13.3	13	1	4629.2
PEN 16	1		Reisura Samatua		1	16.4	133	16.4	16	1	3940.1
PEN 17	2	2	Tehio Maireriki	1		15.2	167	15.2	15	1	4703.3
PEN 18	2	5	Pora pora - Teremoana Viniki	1		16.2		15.2	15	1	4703.3
PEN 19	2	1	Rangitava Taia	1		14.5	177	14.5	15	1	4676
PEN 20	3	3	Rangi Rass	1		9.7	93	9.7	10	1	4488.8
PEN 21	2	2	Tata Tonitara	1		10.4	177	10.4	10	1	4516.1
PEN 22	4	1	Tira Nikau	1		10.6	116	10.6	11	1	4603.9
PEN 23	1	1	Sope Carnahan		1	10.2	107	10.2	10	1	3698.3
PEN 24	4	1	Takake Akatapuria	1		16	162	16	16	1	4734.5
PEN 25	4	5	Tapuia Taime	2		13.7	163	13.7	14	1	8651.8
PEN 26	1		Terepai Tutai		2	13	100	13	13	1	7004.5
PEN 27	2	2	Rupe Meremere	1		10.5	99	10.5	11	1	4520
PEN 28	2	2	Kirikava Moerangi		2	9.3	89	9.3	9	1	6860.2
PEN 29	4		Tekaikura Marsters	1		13.6	148	13.6	14	1	4640.9
PEN 30	4	1	Tini Ford	1		12.7	150	12.7	13	1	4605.8
PEN 31	1	2	Ussiah Taruia	1		11.7	144	11.7	12	1	4566.8
PEN 32	4		Tera Tonitara	1		9.6	94	9.6	10	1	4484.9
PEN 33	3	1	Taui Nikoro	1		9.6	90	9.6	10	1	4484.9
PEN 34	2	2	Nikioa Faireka	1		15.2	178	9.6	10	1	4484.9
People staying in house are not the actual owners but other family members.											1
PEN 35	1		Pa Taime(Principal tyron)		1	10.7	100	10.7	32	1	3717.8
PEN 36	1		Don George(Puasau George Husband dead)		1	12.4	114	12.4	12	1	3784.1
PEN 37	2	4	Turu Taime(Tekau taia & Napa tutavake)	1		9.1	85	9.1	9	1	4465.4
PEN 38	3	4	Aru Nikore(Mr Kokoria The Kiribati teacher family)	1		11.4	99	11.4	11	1	4555.1
PEN 39	3	1	Pohatu Paulo (Tokoa Paulo)	1		12.5	128	12.4	12	1	4594.1
PEN 40	2	4	Mona Viniki (Ma Viniki son of teremoana Viniki)	1		8.7	73	8.7	9	1	4449.8
PEN 41	2	2	Tom Peau (Suihua Marsters)	1		8.4	74	8.4	25	1	4438.1
RESIDENTIAL HOUSES - REROOFING											
PEN 42	6	3	Rausei Meremere	1		6.7	17	7	7	1	10208.75
PEN 43	2	1	Tini Joseph	1		10.9	40	11	11	1	14273.6
GOVERNMENT AND COMMUNITY BUILDINGS											
PEN 44			Tongareva Community Craft Centre	1		23.7	332	24	72		
Penryhn / Tetautua Village											
PEN 45	2	3	Ben William	1		8.99	0	9	9	1	4461.5
PEN 46	2	1	Joe Marsters	1		12.9	0	12	9	1	4493
PEN 47	2	1	Koiatu Raki	1		8.5	0	9	9	1	4461.5
PEN 48	2	2	Marama Tautu	1		12	0	12	12	1	4578.5
PEN 49	2	4	Napa Tutavake	1		14.565	0	12	12	1	4578.5
PEN 50	3	1	Pange Poreva		2	7.18	0	9	6	1	6763
PEN 51	3	1	Rite Tapaitau	1		6.64	0	10	10	1	4500.5
PEN 52	3		Rongo Taia	1		15.16	0	bb// /10	15		4664
PEN 53	3	3	Taia Tau	1		7.26	0	7	7	1	4383.5
PEN 54	3	2	Tapeta Tinirau	1			108	12	6	1	8780.38
PEN 55	2	4	Tekotia Joe	1		14.84	0	15	15	1	4695
PEN 56	2	1	Teumere Joseph	1		10.35	0	9.6	12	1	4578.5
PEN 57	2		Tini Ford	1		18.775	0	6	12	1	4515.5
PEN 58	2	1	Tinikata Joseph		2	10	0	10		1	4835
PEN 59	2	2	Torne Nikau	1		9.7	0	9	9	1	4461.5
PEN 60	2	4	Mamia Tapaitau	1		10.36	0	10	10	1	4500.5
PEN 61	2		Taku Rongi Taia	1		6.4	0	6	6	1	4344.5
PEN 62	2	1	Boss Solo		2	7.265	0	7		1	6731.5
PEN 63	3	2	Rio Teika	1				12	9	1	4493
PEN 64			Sunday School Hall	1		9.95	0	10		1	4110.5
PEN 65	4	1	Solomona Tapu	1		9.95	0			1	4035.5
RESIDENTIAL HOUSES - REROOFING											
PEN 66	4	2	Saitu Marsters		2			5	6	1	11880.25
60				55	20		57	709.5		65	\$336,817.78
LEFTOVER TANKS				QTY							AMOUNT
OMOKA			Kohe Taime	1							4007
			Mama Ruaki Marsters	1							4007
			Maru Akatapuria	1							4007
			Taputito Meremere	1							4007
TETAUTUA			Billy Daniel	1							4007
			Tepe Taia	1							4007
TOTAL COST OF LEFTOVER TANKS				6							\$ 24,042.00

**COOK ISLANDS GOVERNMENT (MOIP/NZAP)
NORTHERN WATER HARVESTING PROJECT 2011**

Procurement, Mobilisation, Construction Summary Programme Timeline

							2011							2012									
No.	Activity	Duration	Responsibility	Planned	Actual	Status	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR				
	Phases					adjusted	Phase 1: Tender, Procurement & Mobilisation						Phase 2: Implementation/Construction										
1	Tender and Awarding of Contract	2 months	MOIP, PM & PMC	1 month	8 weeks	complete	[Gantt bar from April to May]																
2	Procurement & Mobilisation	2 months	Contractor	2 months	12 weeks	complete		[Gantt bar from May to July]															
3	Mobilisation & Signing of MOU's	2 months	MOIP, Island Councils	1 month	8 weeks	complete			[Gantt bar from July to August]														
4	Implementation: Construction Stage - Starts	4 months	Pukapuka & Nassau	4 months	8 weeks	complete				[Gantt bar from August to November]													
5	Implementation: Construction Stage - Starts	4 months	Penryhn & Rakahanga	4 months		ongoing					[Gantt bar from August to November]												
6	Construction & Contract Administration, Monitoring & Reporting		Contractor & Project Manager	4 months		ongoing	[Gantt bar from April to November]																
7	Handover to Client/Household		Project Manager												[Gantt bar from December to January]								
8	Defects Liability Period		Project Manager/Contractor													[Gantt bar from December to March]							
9	Project completion report		Project Manager															[Gantt bar from February to March]					

Key  **Planned**
 **Milestones**
 **Actual**