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The Pacific environment, sustaining our livelihoods and natural heritage in harmony with our cultures.

Natural Solutions for Island Resilience

CIRCULAR

FILE: AP 6/5/6/3
DATE: 14 August 2015
CIRCULAR: 15/52

TO: SPREP National Focal Points
PacWaste National Focal Points

SUBJECT: PacWaste Project - Prioritised Regional Asbestos Interventions

Dear PacWaste Beneficiary Countries,

Most of you would now be aware that the PacWaste project, funded by the European Union and implemented by SPREP, has been conducting a regional baseline study on asbestos materials and wastes in 13 Pacific island countries across 25 different islands.

The primary purpose of the PacWaste regional asbestos baseline survey was:

1. to identify the status and locations of asbestos materials and wastes in the 13 Pacific island countries (includes 25 separate islands);

2. to identify prioritised locations for the PacWaste project to undertake approximately USD 2 million in remedial actions where asbestos was found to present the highest potential risk to human health; and

3. to identify best practice measures to reduce any human health risks identified and full costs to implement such measures.

The PacWaste Regional Asbestos Baseline Survey has now been completed and the information collected has been assessed in accordance with an asbestos risk management methodology to rank those sites on a human health priority basis.

This information was presented to two PacWaste Technical Advisory Panel meetings for the consideration and comment in Sydney Australia on April 2015 and in Suva, Fiji on 21-22 May 2015. The individual country reports are available on the PacWaste Webpage at http://www.sprep.org/pacwaste/useful-links with an overarching regional report to follow.

The PacWaste Technical Advisory Panel for asbestos endorsed the risk ranking methodology and because of the very large number of sites found with asbestos, recommended that the PacWaste project should focus on the following three categories of high potential risk sites:

a) public and government sites with the most vulnerable members of the community, which includes schools, other education facilities, hospitals and other places where the public would be exposed;

b) locations where more dangerous forms of asbestos such as insulation materials (lagging) which contain asbestos and locations where fire damaged asbestos has been found; and

c) those sites ranked in the medium to high risk category of 17 to 33 using the endorsed risk ranking methodology.

This Circular therefore presents the PacWaste project's proposed program of works for asbestos in the region (see Appendix 1), which has been endorsed by the PacWaste Technical Advisory Panel, for your comment and information.

In addition to this, the total number of government, commercial and other locations (excludes residential except for Banaba and Niue) where asbestos was located is provided in Appendix 2 along with the risk ranking.

Once comments have been received, SPREP's PacWaste team will be putting these recommendations into effect and will need the full support and co-operation of countries to do this successfully. Participation in PacWaste as a demonstration country is of course entirely voluntary, but will require joint efforts to successfully implement the offered interventions.

Interventions will typically involve the removal of asbestos materials and wastes by trained experts using specialised equipment, followed by secure transport and safe disposal (including international export). Many locations will require the removed asbestos materials to be replaced with non-asbestos products.

It is important to note that although the PacWaste project's proposed program of works for asbestos identifies the total number of potential intervention sites, the final number of locations that can be addressed will not be finalised until the tender evaluation process is complete and the offers reconciled with the available project budget.

If countries have any comments on the PacWaste Regional Asbestos Baseline Survey or the proposed PacWaste regional program of works, please kindly prepare a response and send by email to stewartw@sprep.org no later than COB **Monday 29th August 2015**.

On behalf of SPREP and the PacWaste project team, I look forward to working with you to secure best possible asbestos management in the Pacific region.

Yours sincerely,



Kosi Latu
Acting Director General

APPENDIX 1: PacWaste Projects Proposed Asbestos Intervention Sites

Country	Location	Type of Building Material	Quantity (m2)	Risk Ranking
Cook Islands	Rarotonga, Avarua School	Cladding	100	25
Cook Islands	Rarotonga, Avarua School	Soil cleanup	LS	25
Cook Islands	Rarotonga, Tereora College	Cladding	80	25
Cook Islands	Rarotonga, Takitumu School	Cladding	150	24
Cook Islands	Rarotonga, Arorangi School	Cladding	250	25
Cook Islands	Rarotonga, Avatea Primary School	Cladding	200	25
Cook Islands	Rarotonga, Nikao School	Cladding	100	24
Cook Islands	Rarotonga, Titikaveka College	Cladding	300	23
Cook Islands	Rarotonga, Rarotonga Airport	Roof	600	20
Cook Islands	Rarotonga, Rarotonga Airport	Cement Board Ceiling	300	21
Cook Islands	Aitutaki Hospital	Cladding	100	23
Cook Islands	Aitutaki, Araura College	Cement Board Divider Panels	50	24
Cook Islands	Aitutaki, Araura Primary	Cement Board Divider Panels	20	24
Cook Islands	Aitutaki, Tekaaroa School	Cladding	40	23
Cook Islands	Aitu, Laundry behind hospital	Cladding	50	19
Cook Islands	Aitu, Hospital	Cladding	200	17
Cook Islands	Aitu, Enuamanu School	Cladding	220	23
Cook Islands	Mangaia, Old Government House	Roof (Burnt Building)	200	24
Cook Islands	Mangaia, Old Government House	Debris and Contaminated Soil	LS	24
Cook Islands	Mangaia, Ivirua School	Roof	120	23
	Mangaia, Ivirua School	Cladding	240	23
Cook Islands	Mangaia, Mangaia School	Cladding	100	25
Cook Islands	Mauke, Packing Shed	Debris and Contaminated Soil	LS	17
Cook Islands	Mauke, Old Hospital	Cladding	20	23

Cook Islands	Mauke, Mauke School	Cladding and Soffits	300	22
Cook Islands	Mitiaro, Mitiaro School	Cladding	350	22
Fiji	Tamavua Hospital	Rope lagging beneath corridor slab	240m	26
Fiji	Tamavua Hospital	Ward 5, outside pipe rope lagging	180m	24
Fiji	Tamavua Hospital	Ward 5, cladding, ceiling	1200	23
Fiji	Tamavua Hospital	Contaminated Soil	LS	19
Fiji	Suva Grammar School	Entrance corridor, vinyl tile	100	24
Fiji	Suva Grammar School	Hall, external panel	30	16
Fiji	Savusavu Hospital	Entrance, vinyl floor	200	23
Fiji	Labasa Hospital	Boiler rope	120	19
Fiji	Labasa Hospital	Sunshade	160	19
Fiji	Labasa College	Library sunshade	40	17
FSM	Kolonia Public Market, Pohnpei	Fence	50	23
FSM	Public Reserve Area, Pohnpei	Debris	3	17
Kiribati	Ministry of Fisheries, Bairiki	Guttering	20	23
Kiribati	Ministry of Finance, Betio	Sunshades and facades	200	21
Kiribati	Bonriki International Airport	Guttering	40	21
Kiribati	Kiribati Community Club, Bairiki	Guttering	20	17
Nauru	Power Station Building	Gable / Main Eastern Entrance Cladding	42	25
Nauru	Power Station Building	Roof, Northern Side	1220	24
Nauru	Power Station Building	West Wall, Northern End	32	20
Nauru	Power Station Building	Wall Entrance to Switchboard Corridor, (North Side)	3	22
Nauru	Power Station Building	Cool Store Roof, Southern Side	830	23
Nauru	Power Station Building	Cable Shed Western Wall, Northern End	284	20

Nauru	Power Station Building	Water Services Building Roof and Gables	122	21
Nauru	Prison	Roof and Cladding - some burnt and some waste	180	20
Nauru	Anetan Infant School	Front Classroom Cladding	435	23
Nauru	Boe Infant School	Old School - Cladding mid area	200	22
Nauru	Nibok Infant School	Cladding	685	21
RMI	College of the Marshall Islands	Pipes - parking barriers	60	18
RMI	College of the Marshall Islands	Stockpile of boards	100	22
Samoa	Fasito'o Tai Village	AC corrugated sheets	120	25
Samoa	University of the South Pacific, Savai'i	Loose former roofing, pacm	LS	20
Samoa	Meterological Station, Apia	Loose ACM debris	LS	17
Solomon Islands	Waimpuru Secondary School, Makira	Cladding	500	18
Tonga	Tonga Post Ltd	Roof and Soffits	1400	27
Tonga	Neiafu Former Market, Vava'u	Roof	300	27
Tonga	MOI WOF Centre	Roof and Cladding	900	24
Tonga	Fua'amotu Domestic Airport	Roof and Facades	450	23
Tonga	Prince Ngu Hospital, Neiafu, Vava'u	Roof	3600	22
Tonga	St Andrews School	Cladding	160	21
Tonga	Tonga Water	Roof and Facades	120	20
Tonga	Viola Hospital, Tongatapu	Walkway Roof	20	17
Tuvalu	Princess Margaret Hospital	Debris	20	19
Vanuatu	Paonangisu Health Centre	Cladding	2000	19

Vanuatu	Port Vila Central Hospital	Cladding	2400	18
Vanuatu	Port Vila Central Hospital	Pipe Lagging	250m	19
Vanuatu	Malapoa College	Cladding	1000	21
Vanuatu	Malapoa College	Bitumen Roof	600	23

APPENDIX 2: Full Asbestos Location List
(excludes residential except for Banaba Island (Kiribati) and Niue)

Country	Location	Type of Building Material	Notes	Quantity (m2)	Risk Ranking
Cook Islands	Rarotonga, Arorangi Commercial Bldg	Cladding	Encapsulate	20	18
Cook Islands	Raraotonga, Arorangi Church	Cladding	Encapsulate	250	22
Cook Islands	Rarotonga, Avarua School	Cladding		100	25
Cook Islands	Rarotonga, Avarua School	Soil cleanup		LS	25
Cook Islands	Rarotonga, Tereora College	Cladding	Some broken bits to pick up	80	25
Cook Islands	Rarotonga, Takitumu School	Cladding		150	24
Cook Islands	Rarotonga, Arorangi School	Cladding		250	25
Cook Islands	Rarotonga, Avatea Primary School	Cladding		200	25
Cook Islands	Rarotonga, Nikao School	Cladding	Some broken bits to pick up	100	24
Cook Islands	Rarotonga, Seventh Day Adventist School	Cladding		200	25
Cook Islands	Rarotonga, Titikaveka College	Cladding		300	23
Cook Islands	Rarotonga, NZ High Commission	Roof		700	20
Cook Islands	Rarotonga, Rarotonga Airport	Roof		600	20
Cook Islands	Rarotonga, Rarotonga Airport	Cement Board Ceiling	Encapsulate	300	21
Cook Islands	Rarotonga Met Office	Roof		200	20
Cook Islands	Aitutaki, Vaipae Church	Broken Cladding on Ground		LS	21
Cook Islands	Aitutaki Hospital	Cladding	Encapsulate	100	23
Cook Islands	Aitutaki, Araura College	Cement Board Divider Panels	Encapsulate	50	24
Cook Islands	Aitutaki, Araura Primary	Cement Board Divider Panels	Encapsulate	20	24
Cook Islands	Aitutaki, Tekaaroa School	Cladding	Some broken bits to pick up	40	23
Cook Islands	Aitu, Laundry behind hospital	Cladding		50	19
Cook Islands	Aitu, Hospital	Cladding	Suspected, not confirmed	200	17
Cook Islands	Aitu, Marine Building	Cladding		120	18
Cook Islands	Aitu, Agriculture Building	Cladding		300	19
Cook Islands	Aitu, Enuamanu School	Cladding		220	23
Cook Islands	Mangaia, Old Government House	Roof (Burnt Building)	Old Fire Site	200	24
Cook Islands	Mangaia, Old Government House	Debris and Contaminated Soil	Old Fire Site	LS	24
Cook Islands	Mangaia, Ivirua School	Roof		120	23
Cook Islands	Mangaia, Ivirua School	Cladding		240	23
Cook Islands	Mangaia, Mangaia School	Cladding	Burnt Debris in Two Locations	100	25
Cook Islands	Mauke, Packing Shed	Debris and Contaminated Soil		LS	17
Cook Islands	Mauke, Old Hospital	Cladding		20	23
Cook Islands	Mauke, Old Asbestos Shed	Roof		300	17
Cook Islands	Mauke, Mauke School	Cladding and Soffits		300	22
Cook Islands	Mitiaro, Administration Building	Cladding - Exterior and Interior		340	17
Cook Islands	Mitiaro, Mitiaro School	Cladding	Some broken bits to pick up	350	22
Fiji	Tamavua Hospital	Rope lagging beneath corridor slab		240m	26
Fiji	Tamavua Hospital	Ward 5, outside pipe rope lagging		180m	24
Fiji	Tamavua Hospital	Ward 5, cladding, ceiling		1200	23
Fiji	Tamavua Hospital	Contaminated Soil	Soil needs to be scraped	LS	19

Fiji	Suva Grammar School	Entrance corridor, vinyl tile		100	24
Fiji	Suva Grammar School	Hall, external panel		30	16
Fiji	Savusavu Hospital	Entrance, vinyl floor		200	23
Fiji	FSC, Labasa Mill	Compressor lagging		0.5m3	23
Fiji	Labasa Hospital	Boiler rope		120	19
Fiji	Labasa Hospital	Sunshade		160	19
Fiji	Labasa College	Library sunshade		40	17
Fiji	WAF, Labasa	AC pipe		5	11
Fiji	WAF, Labasa	Pipe stockpile by road		40	9
Fiji	Nadi Airport	Facade, car park (no 8)	May have been replaced during Airport fitout	120	15
Fiji	Suva FMF Gym	Soffit		70	14
Fiji	WAF, Sigatoka Depot	Stockpile outside WAF yard		200	7
Fiji	Tavakubu Rd, Lautoka	Pipe		5	10
Fiji	WAF, Tavua Depot	Pipe in yard		5	10
Fiji	Waste by Umuria Park	Pipe		5	9
Fiji	SP Distillery, Lautoka	Pipe, outside		5	7
FSM	LP Gas Corporation, Pohnpei	Cladding		1625	9
FSM	Kolonia Public Market, Pohnpei	Fence		50	23
FSM	Colonia Catholic Church, Yap	Roof		300	15
FSM	Public Reserve Area, Pohnpei	Debris		3	17
FSM	Botanic Gardens, Pohnpei	Roof	Small building due for demolition	45	14
FSM	Catholic Church, Chuuk	Roof		525	10
FSM	State Court, Chuuk	Ceiling tiles	Encapsulate	30	16
FSM	Fishing Corp Generator Shed, Pohnpei	Cladding		200	16
FSM	Central Water Treatment Plant, Yap	Pipes		3	16
FSM	Kolonia Roadside, Pohnpei	Pipe		2	13
FSM	FSM Telecom, Yap	Generator exhaust lagging		2	13
FSM	Dept of Education Admin, Yap	Floor tiles		700	18
FSM	FSM Fisheries & Maritime Inst, Yap	Floor tiles		70	18
FSM	FSM Telecom, Kosrae	Generator exhaust lagging		2	13
Kiribati	Kiribati MELAD, Bairiki	Loose fibre board		60	24
Kiribati	Kiribati MELAD, Bairiki	Vinyl floor tiles		120	21
Kiribati	Ministry of Fisheries, Bairiki	Guttering		20	23
Kiribati	Ministry of Finance, Betio	Sunshades and facades		200	21
Kiribati	Bonriki International Airport	Guttering		40	21
Kiribati	Kiribati Community Club, Bairiki	Guttering		20	17
Kiribati	The Old Powerhouse	Loose fibre board		50	16
Kiribati	Bobotin Kiribati Limited (BKL)	Exterior wall panel	Encapsulate	20	15
Kiribati	Bobotin Kiribati Limited (BKL)	Roof down-pipe		16	15
Kiribati	Betio Town (numerous sites)	Loose AC tiles		LS	15
Kiribati	Residential 18	Boiler rope lagging on pipework	Banaba - no replacement	50	14
Kiribati	Residential 18	Boiler insulation	Banaba - no replacement	20	28
Kiribati	Hospital	Internal wall panel	Banaba - no replacement	1100	28
Kiribati	Hospital	Loose pacm, guttering / drains	Banaba - no replacement	30	28

Kiribati	Hospital	Roof	Banaba - no replacement	2128	28
Kiribati	Primary School	Roof	Banaba - no replacement	324	28
Kiribati	Primary School	Classroom, external wall	Banaba - no replacement	174	28
Kiribati	Fatima Residential	East wall, external	Banaba - no replacement	100	25
Kiribati	Junior/ Secondary School	Roof and wall cladding	Banaba - no replacement	400	24
Kiribati	Residential Houses 1-20	Roofs	Banaba - no replacement	2400	23
Kiribati	Mechanics	Former AC roof and walls	Banaba - no replacement, big clean-up	800	20-23
Kiribati	Meeting House 2	Roof, loose pacm	Banaba - no replacement	100	22
Kiribati	Captains Arms, Wharf	Roof	Banaba - no replacement	100	22
Kiribati	Meeting House 1	Roof, loose pacm	Banaba - no replacement	100	22
Kiribati	The Guest House	Sun shades and windows	Banaba - no replacement	10	22
Kiribati	Former Workers Accommodation	Louvre	Banaba - no replacement	100	21
Kiribati	SDA Church	External wall panel	Banaba - no replacement	200	21
Kiribati	Council Office Building	Cladding	Banaba - no replacement	20	21
Kiribati	Fatima Catholic Church	Roof	Banaba - no replacement	700	21
Kiribati	Police Station	Roof facades	Banaba - no replacement	30	18
Kiribati	Former Power House	Rope lagging	Banaba - no replacement	200	17
Kiribati	Former Power House	Roof, Wall panels	Banaba - no replacement	2000	16
Kiribati	Boat sheds	Roof, loose pacm	Banaba - no replacement	100	16
Kiribati	Warehouse 4	Roof, pacm	Banaba - no replacement-big clean-up	2000	16
Kiribati	Workshop	Louvre	Banaba - no replacement	100	14
Kiribati	Warehouse 5	Roof, loose pacm	Banaba - no replacement-big clean-up	2000	13
Kiribati	Warehouse 7	Roof, loose pacm	Banaba - no replacement-big clean-up	2000	13
Kiribati	The Restaurant	Front porch pillars	Banaba - no replacement	60	13
Kiribati	Warehouse 1	Loose pacm	Banaba - no replacement-big clean-up	2000	12
Kiribati	Warehouse 6	Wall panel	Banaba - no replacement-big clean-up	800	12
Kiribati	BPC Former Phosphate Processing Plant	Roof, loose sheeting	Banaba - no replacement-huge clean-up!	10000	11
Kiribati	Abandoned houses 1-3	Roofs	Banaba - no replacement	300	11
Kiribati	Warehouse 3	Loose pacm	Banaba - no replacement-big clean-up	2000	10
Kiribati	Warehouse 4	Loose pacm	Banaba - no replacement-big clean-up	2000	10
Kiribati	Mechanics Stockpile	Pacm, whole sheets	Banaba - no replacement-many stacked sheets	2000	10
Kiribati	Aarons Camp	Loose pacm	Banaba - no replacement - big clean-up	3000	10
Nauru	**Government Buildings**				
Nauru	RON Hospital New Block	Roof and Ceiling	Ron Hospital Asbestos will probably be removed as part of Hospital Upgrade although old part may not be removed - *high wipe results*	3100	25
Nauru	RON Hospital Old Block			3000	25
Nauru	Power Station Building	Gable / Main Eastern Entrance Cladding	Several Entries for Power Station as GHD carried out separate survey - *high wipe results*	42	25
Nauru	Power Station Building	Roof, Northern Side		1220	24
Nauru	Power Station Building	West Wall, Northern End		32	20

Nauru	Power Station Building	Wall Entrance to Switchboard Corridor, (North Side)		3	22
Nauru	Power Station Building	Cool Store Roof, Southern Side		830	23
Nauru	Power Station Building	Cable Shed Western Wall, Northern End		284	20
Nauru	Power Station Building	Water Services Building Roof and Gables		122	21
Nauru	Prison	Roof and Cladding - some burnt and some waste	Prison was set on fire in 2007 and there is still burnt debris remaining - *high wipe results (Based on wipe results - also impacting on nearby Govt Buildings)*	180	20
Nauru	Anetan Infant School	Front Classroom Cladding	Could excapsulate but best to remove as infant school	435	23
Nauru	Boe Infant School	Old School - Cladding mid area	Could excapsulate but best to remove as infant school	200	22
Nauru	Nibok Infant School	Cladding	Could excapsulate but best to remove as infant school	685	21
Nauru	**Small Miscellaneous Buildings**				21
Nauru	Bridge Rd Trader – Aiwo	Roof		140	18
Nauru	Orro Church – Aiwo	Roof		785	18
Nauru	Small Shed by Road – Denig	Roof		85	19
Nauru	Bingo Shed – Denig	Roof	No ceiling but too broken to encapsulate	1550	15
Nauru	Old Laundry for Expats – Denig	Cladding	Encapsulate	480	21
Nauru	Naoero Central Minimarket	Roof		30	19
Nauru	C-Store Market	Roof, Soffits		240	17
Nauru	Old Cinema in Location	Roof	No ceiling but too broken to encapsulate	270	21
Nauru	Conrad Restaurant – Beitsi	Roof		120	22
Nauru	Catholic Church	Roof		615	21
Nauru	3 in 1 Store Ewa	Cladding	Encapsulate	105	21
Nauru	Meage Store Nibok	Cladding	Encapsulate	40	19
Nauru	Leung Store Aiwo	Roof and Cladding	Mixture of Roof and Cladding	45	16
Nauru	Onion Store Boe	Cladding	Encapsulate	60	17
Nauru	Nauru Independent Church / House Boe	Roof		2075	17
Nauru	My Store (DHL) Yaren	Cladding	Encapsulate	45	21
Nauru	Kauwan - Kibaba Trading Menen	Roof, Cladding	Mixture of Roof and Cladding	110	16
Nauru	Petrol Station / Chinese Restaurant	Roof and Cladding	Mixture of Roof and Cladding	150	18
Nauru	TAB Menen	Cladding	Encapsulate	85	21
Nauru	Green Tiled Building Sea Side Menen	Cladding	Encapsulate	75	18
Nauru	I J Store	Cladding	Encapsulate	10	18

Nauru	**RonPHOS Areas**		RONPhos say they will remove the asbestos themselves and dump at sea (Add 3%). Supervision/mobilisation costs not added in for RONPhos		
Nauru	Old Phosphate Store by Sports-ground	Roof	Removal only	6030	22
Nauru	Phosphate Storage Bin by Sea	Roof		2350	22
Nauru	RonPHOS Workshop	Roofing		7920	21
Nauru	RonPHOS Workshop	Cladding		1710	26
Nauru	RONPhos Main Conveyor	Roof and Cladding	Mixture of Roof and Cladding	1200	25
Nauru	PONPhos Conveyor Building	Roof and Cladding	Mixture of Roof and Cladding	415	24
Nauru	Old NPC Club	Roof		900	24
Nauru	Shed next to NPC Club	Roof		300	21
Nauru	RONPhos Head Office	Roof		780	20
Nauru	2 Small RONPhos Buildings	Roofs		220	18
Nauru	6 Small Houses near RONPhos	Roofs		700	18
Nauru	Old NPC Bakery	Roof		400	18
Nauru	RONPhos Training Centre	Roof		285	22
Nauru	Stacked Sheets by RONPhos	Stockpile		156	19
Nauru	2 Buildings Behind Power Stn	Roof and Cladding	Mixture of Roof and Cladding	620	18
Nauru	RONPhos Vehicle Workshops	Roof and Cladding	Mixture of Roof and Cladding	1540	21
Nauru	RONPhos Workshop Store and Toilet	Roof and Cladding	Mixture of Roof and Cladding	400	25
Nauru	RONPhos Offices and Stores	Roof and Cladding	Mixture of Roof and Cladding	720	25
Nauru	RONPhos Old Phosphate Bin by Hotel	Roof and Cladding	Removal only	690	24
Nauru	**RONPhos Phosphate Processing Area:**				24
Nauru	Waste Pile by Road	Stockpile		10	20
Nauru	Tall Building by Road	Roof and Cladding	Mixture of Roof and Cladding	1600	25
Nauru	Siloes Cover	Roof		300	25
Nauru	Conveyor Roof	Roof		350	25
Nauru	Processing Plant Building	Roof and Cladding	Mixture of Roof and Cladding	1750	24
Nauru	Small Shed Roof	Roof		300	25
Nauru	**NPC Areas on TopSide:**		NRC say they will encapsulate / dispose to their landfill		25
Nauru	Workshop	Roof and Cladding		2280	24
Nauru	Shelter	Roof		300	24
Nauru	Paint Shed	Roof and Cladding		535	24
Nauru	Tyre Bay	Roof and Cladding		865	24
Niue	**Government Buildings**				
Niue	Niue Broadcasting	Cladding / Soffits	Not Tested - likely Chrysotile and maybe Amosite	125	18
Niue	Primary School	Cladding / Soffits	Chrysotile	280	22

Niue	Primary School Debris at Back	Debris	Chrysotile, Amosite	LS	22
Niue	Secondary School	Cladding	Chrysotile	490	20
Niue	Avatele Old School	Panels	Chrysotile	10	17
Niue	Police Station	Cladding / Soffits	Chrysotile	200	19
Niue	Alofi South Hall	Cladding	Chrysotile	234	20
Niue	Prison	Cladding	Chrysotile	60	22
Niue	Prison Toilet Vent Pipe	Pipe	Not Tested - very likely Chrysotile	3	13
Niue	Tuapa Hall	Cladding	Chrysotile	90	18
Niue	Toi Meeting Hall	Cladding	Chrysotile	525	17
Niue	Old Hakupu School	Cladding	Chrysotile, Amosite, Crocidolite	572	19
Niue	Lakepa Pre-School	Cladding	Chrysotile, Amosite	8	20
Niue	Old Lapeka School Waste Roof Stockpile	Waste Roofing	Chrysotile	LS	8
Niue	**Private**				
Niue	Honey Processing	Roofs	Not Tested - very likely Chrysotile and maybe Amosite	270	22
Niue	Vai Mamali / Rockbak Building	Cladding	Chrysotile	260	19
Niue	Alofi Bread Shop	Cladding / Soffits	Not Tested - likely Chrysotile and maybe Amosite	80	19
Niue	Makini Handcrafts	Fence made from Roofing	Chrysotile, Amosite	10	18
Niue	Jenna's Restaurant	Cladding	Chrysotile	114	18
Niue	Sassy Fashions / Breakthrough	Cladding	Chrysotile	224	18
Niue	Peleni's Travel	Cladding	Chrysotile	120	18
Niue	St Francis Automechanics / Peta Paints	Roofing / Cladding	Chrysotile, Amosite	1250	26
Niue	Abbatoir / Meat Processing	Roof	Not Tested - very likely Chrysotile and maybe Amosite	60	18
Niue	Avatele Church Panels	Panels	Chrysotile	120	18
Niue	Catholic Church	Roofing	Not Tested - very likely Chrysotile and maybe Amosite	260	19
Niue	**Residential**				
Niue	Piping in Old Liku House	Piping	Chrysotile	LS	13
Niue	Empty House roofs to go - assume 200 houses @ 120 m2/house	Roofs	Mostly Chrysotile and some Amosite	24000	19
Niue	Occupied House roofs - assume 27 based on 2011 census @ 120 m2/house	Roofs	Mostly Chrysotile and some Amosite	4320	21
Niue	Empty House cladding - assume 100 houses @ 120 m2/house and 55% asbestos	Cladding	Mostly Chrysotile and some Amosite	6600	22
Niue	Occupied House cladding - assume 93 @ 120 m2/house and 55% asbestos	Cladding	Mostly Chrysotile and some Amosite	6138	23
Niue	**Other**				

Niue	Old Fulton Hogan bitumen Tankers (Cost includes setting up as friable asbestos project and also cleaning up and disposing of soil)	Lagging	Friable Amosite	5	18
Palau	Aimeliik Power Plant	Gaskets	Replace Gaskets in Generator	1	14
Palau	Airai Water Treatment Plant	AC Pipes	Remove Pipes to Landfill and Cover	500	13
Palau	Public Reserve, Ngiwal	AC Pipes	Remove Pipes to Landfill and Cover	12	12
Palau	Roadside, Imetang Village	AC Pipes	Remove Pipes to Landfill and Cover	1	10
Palau	Malakal Power Plant	Roof and Cladding	Cladding is 15 years old from Japan - Encapsulation is appropriate but need to do both sides	2000	8
RMI	College of the Marshall Islands	Pipes - parking barriers		60	18
RMI	College of the Marshall Islands	Stockpile of boards	Remove to Landfill and cover	100	22
RMI	Ace Hardware	Roof		400	16
RMI	Majuro Construction Company	Roof		200	9
RMI	Majuro Airport	Water pipes		100	7
Samoa	Fasito'o Tai Village	AC corrugated sheets		120	25
Samoa	Customs House, Apia Port	Exterior façade		400	25
Samoa	Meterological Station, Apia	Corrugated roof	Alos some loose debris	440	22
Samoa	Femei Matata Statistics Office	Ceiling Panels	Encapsulate	1200	21
Samoa	University of the South Pacific, Savai'i	Loose former roofing, pacm	Pick up debris and surface scrape soil	LS	20
Samoa	Paul V1 College	Roof		1560	20
Samoa	Manono-uta Church, Upolu	Vinyl tile		350	20
Samoa	Tuiala Power Station, Upolu	Vinyl floor, control room		150	18
Samoa	Safofu Church	Roof		50	17
Samoa	WSLAC House	Sun shade	Encapsulate	200	17
Samoa	Meterological Station, Apia	Loose ACM debris		LS	17
Samoa	USP Apia	Boiler insulation		5	16
Samoa	University of the South Pacific, Savai'i	Toilet block roof		50	15
Samoa	Old Timber Site, Savai'i	Roof		500	14
	Old Timber Site, Savai'i	Boiler Pipe Insulation		5	18
Samoa	USP, Apia	Roof		200	14
Samoa	Tafaigata Landfill	AC water pipes		20	13
Samoa	Fagamalo - unoccupied building	Loose pacm debris		10	12
Solomon Islands	Lands and Survey Building, Honiara	Floor Tiles		500	20
Solomon Islands	Min of Infrastructure and Development, Honiara	Floor Tiles		600	20
Solomon Islands	Waimpuru Secondary School, Makira	Cladding		500	18
Solomon Islands	Council Building, Gizo	Cladding	Encapsulate	900	16
Solomon Islands	Court Building, Gizo	Cladding	Encapsulate	650	16
Solomon	Hardware Store, Gizo	Sheets	1.2 x 2.4 Sheets for Sale, probably all sold	50 Sheets	14

Islands			now		
Tonga	Tonga Post Ltd	Roof and Soffits		1400	27
Tonga	Neiafu Former Market, Vava'u	Roof		300	27
Tonga	MOI WOF Centre	Roof and Cladding		850	24
Tonga	Fua'amotu Domestic Airport	Roof and Facades	Also pick up loose ACM and scrape topsoil	450	23
Tonga	Ngu Hospital, Neiafu, Vava'u	Roof	Also pick up loose ACM and scrape topsoil	50	22
Tonga	St Andrews School	Cladding		160	21
Tonga	Plumbing Shop	Roof and Facades		60	21
Tonga	Pacific International (Tonga) Ltd	Roof		180	21
Tonga	Tonga Water	Roof and Facades		120	20
Tonga	Industrial 01, Nuku'alofa	Roof		120	20
Tonga	Industrial 02, Nuku'alofa	Roof		120	18
Tonga	Vava'u Former Bulk Fuel Terminal	Roof	Also pick up loose ACM and scrape topsoil	500	20
Tonga	CAT Depot, Nuku'alofa	Soffit		100	18
Tonga	Viola Hospital, Tongatapu	Walkway Roof		20	17
Tonga	Small Business Centre	Cladding		140	17
Tonga	Government Service Centre, Pausa	Roof		200	16
Tonga	MOI Toilet Block	Roof		80	16
Tuvalu	Sanus Service Station	Front Wall Cladding		100	15
Tuvalu	Meterological Centre	Roof	Also pick up loose ACM and scrape topsoil	100	23
Tuvalu	Princess Margaret Hospital	Debris		20	19
Tuvalu	Debris by Road	Debris		10	16
Tuvalu	Pipes by Wharf	Pipes		20	13
Tuvalu	US Dozer	Brake Pad		1	5
Vanuatu	NB VANUATU STRUCTURES MAY HAVE BEEN DAMAGED BY CYCLONE PAM				
Vanuatu	Chinese Hardware Store	Cladding	The cladding was found being sold In a shop	30	
Vanuatu	Ministry of Lands and Natural Resources	Cladding, gables, soffits		300	16
Vanuatu	Paonangisu Health Centre	Cladding		2000	19
Vanuatu	Port Vila Central Hospital	Cladding	Covered Walkways	2400	18
Vanuatu	Port Vila Central Hospital	Vinyl Flooring	Various Locations	4000	20
Vanuatu	Port Vila Central Hospital	Pipe Lagging	Length of Walkways (Several Pipes in Duct)	250m	19
Vanuatu	Presbyterian College	Cladding	Mostly soffits	2000	25
Vanuatu	Malapoa College	Cladding		1000	21
Vanuatu	Malapoa College	Bitumen Roof	Treat the same as an AC Roof for cost.	600	23
Vanuatu	Manganese Mine, Forari	Cladding and Roofing	Abandoned Mine to be demolished	7000	21
Vanuatu	Northern Provincial Hospital	Underground Pipes	Unknown how much - mostly underground	?	15