

Founga 'o e Mateuteu



Palani
Mapule'i Holo
& Toka'anga
Kelekele

Ki He Ngaahi
Langa Si'isi'i
KALASI 1A, 1B, & 2



KOLO & VAHENG
'O HONOLULU

TONGAN

SIULAI 2019

'Oku lava he ngaahi poloseki langa ke fakatupu 'a e kelekele mo e ngaahi veve ke tafe ki he sisitema tafe'anga vai pea faka'uli'i ai 'a e vaitafe pea mo e 'oseni.



'Oku faka'asi he poloseki langa 'a e kelekele.

Ko e taimi 'o e 'uha, pe ko ha fakavai 'o e feitu'u ngāue, 'oku tafe 'a e kelekele mo e vai ki he sisitema tafe'anga vai.



'Oku tafe hifo 'a e kelekele mo e veve ki he vaitafe.



Ko e kelekele mo e veve 'oku nau tafe ki he 'oseni.

Faka'aonga'i ngāue ke malu'i/Founga Lelei Taha Pule'i (BMPs) ki he lelei 'o e vai 'oku fakamatala he tohini ke malu'i 'etau vaitafe pea mo e 'oseni.



KOLO & VAHENGĀ 'O HONOLULU

FOUNGA KE MATEUTEU KI HE PALANI MAPULE'I HOLO PEA MO E TOKA'ANGA KELEKELE KI HE NGAAHI POLOSEKI LANGA SI'ISI'I FAKAKALASI 1A, 1B & 2

Taumu'a 'o e Tohini

Ko e taumu'a 'o e tohini ke fakalalakaka a' e lelei ki he tafe'anga 'oku hu ki he sisitema tafe'anga 'a e Kolo pea fakasi'isi'i 'a e 'uli 'i he vaitafe pea mo e 'oseni.

Ko e tohini ke faka'aonga'i he ngaahi langa 'api pea mo e poloseki langa kautaha 'oku fiema'u ha pemitu langa pea/mo e fakatokalelei pea 'oku si'isi'i hifo he 'eka 'e taha 'a e Ngāue ki he Veuki Kelekele. Ko e ngaahi poloseki langa anga maheni 'oku kau ai 'a e Ngāue ki he Ue'i Kelekele pea malava ai ke faka'uli'i 'a e sisitema tafe'anga 'a e Kolo pea 'oku kau ai:

- Langa holisi pea mo e 'aa
- Fakalele'i Fakava'e pe ko e Fakafo'ou
- Saitiuoka pea mo e Fakalele'i 'Alu'anga Me'alele pe ko e Fakafo'ou
- Holoki ha 'Api, Hoko, pe ko ha 'Api Langa Fo'ou
- Vai Kaukau (Swimming Pools)
- 'Iutiliti (i.e. palama, 'uhila, etc.)

Ko e ngaahi poloseki ko'eni 'oku fakakalasi ko e 1A, 1B, or 2 Poloseki pe ko ha Langa Si'isi'. 'O fakatatau mo e "Lao 'o Kau Ki He Vai Lelei" (Lao Pule Kolo §20-3), Kalasi 1A, 1B pea 2 Kuo pau ke 'i ai he poloseki 'a e Palani Mapule'i Holo pea mo e Toka'anga Kelekele, pea kau ai mo e tohi maaka, taa palani 'o e feitu'u, pea mo e fakahokohoko 'o e taimi ngāue ki he poloseki. 'E tokoni 'a e tohini ki he kau ma'u 'api pea mo e kau konituleki ke 'ilo 'a e fakakalasi 'o e poloseki, pea mo e fakahinohino ke fa'u ha Palani Mapule'i Holo pea mo e Toka'anga Kelekele, pea fakamatala'i 'a e ngāue ki he malu'i lelei 'o e vai pe ko e Founga Pule Lelei Taha (BMPs), hange ko e Sikulini veve (Biosocks) pea mo e 'aa ta'ofi'anga.

Ngaahi Poloseki Langa Si'isi'i, hange koe ngaahi pou 'aa, 'e fiema'u ke kau ai nouti BMP ki he palani langa, ka 'oku 'ikai fiema'u ai 'a e Palani Mapule'i Holo pea mo e Toka'anga Kelekele.

Ko e ngaahi poloseki 'oku nau fakatupu ha 'uli (kau ai kelekele) ki he sisitema tafe'anga 'a e Kolo 'e lava ke fakahoko ha tohi tikite 'o e mamau lao pea mo ha mo'ua pa'anga.

FOUNGA KI HONO FAKA'AONGA'I 'A E TOHINI

Ko e ngaahi sitepu eni ki hono faka'aonga'i 'o e tohini ke 'ilo'i ai 'a e fiema'u ki ho poloseki pea founga teke lava'i ia.

SITEPU		NGAAHI VAHE 'O E TOHINI
1	'Ai ke 'ilo ho Fakakalasi 'o e poloseki 'aki hoko faka'aonga'i 'a e saati fakatata.	Vakai'i katoa
2	Vakai'i Fiema'u fakakalasi poloseki.	Vakai'i katoa
3	'Ilo'i 'a e Founga Lelei Taha 'o e Pule'i (BMPs) ke faka'aonga'i he feitu'u 'o e poloseki.	Ngāue Ke Malu'i/BMPs
4	Vakai'i sipinga 'o ha foomu ki ha poloseki kuo 'osi.	Taa Palani 'o e Feitu'u/ Ngaahi Keisi Ako
5	Vakai'i fiema'u 'inisipekita.	Sipinga Foomu 'Inisipekita

Tohi Matālalahi

Ko e ngaahi lea pe kupu'i lea 'oku tohi matālalahi pea faka'uHINGA'i 'i he Lao Kolo pea mo e Vahenga 'o Honolulu 'o Kau ki he Lelei 'o e Vai (§20-3-3) 'oku tohi matālalahi 'i he tohini.

FOUNGA KE MATEUTEU KI HE PALANI MAPULE'I HOLO PEA MO E TOKA'ANGA KELEKELE KI HE NGAahi POLOSEKI LANGA SI'ISI'I

Kalasi 1A, 1B, & 2

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‘UHINGA PEA MO E FAKATOKALELEI FIEMA’U PEMITI (SIO PEISI 3)

Fakatokalelei ka ‘i ai ha keli pe fakafonu pe ko hono fakahoko ‘a e ongo me’ani.

Pemiti fakatokalelei‘oku fiema’u ke fakatokalelei ha kiupiki iate 50 pe lahi hake pe ko ha fute 3 pe lahi hake hono ma’olunga pe ko hono liliu ‘a e sipinga tafe’anga vai koe’uhi ko e tu’u ‘a e kelekele ki he kaunga’api.

Ta’aki ‘akau ko ha ngāue ki he ‘akau, ‘o kau ai ‘akau, papa, vao pea mo e ngoue, ‘oku tutu’u pe ko hono ta’aki mei he funga kelekele. Ko e pemiti ta’aki ‘akau ‘oku fiema’u kapau ‘e lahi hake ‘a e ‘elia ta’aki he 15,000 sf.

Tuku’anga Ko e tanaki ha kelekele pe ko ha naunau ki ha feitu’u tuku’anga ‘o lahi hake kiupiki iate 100 ki ha feitu’u, tukukehe kapau na’e ‘osi ma’u ha pemiti fakatokalelei pea ‘e lava ia ke faka’aonga’i ‘a e kelekele ke tanu fakafonu ha luo pe ko hono tauhi ke faka’aonga’i ia ha taimi kehe he kaha’u.

'ELLIA KUO VEUKI

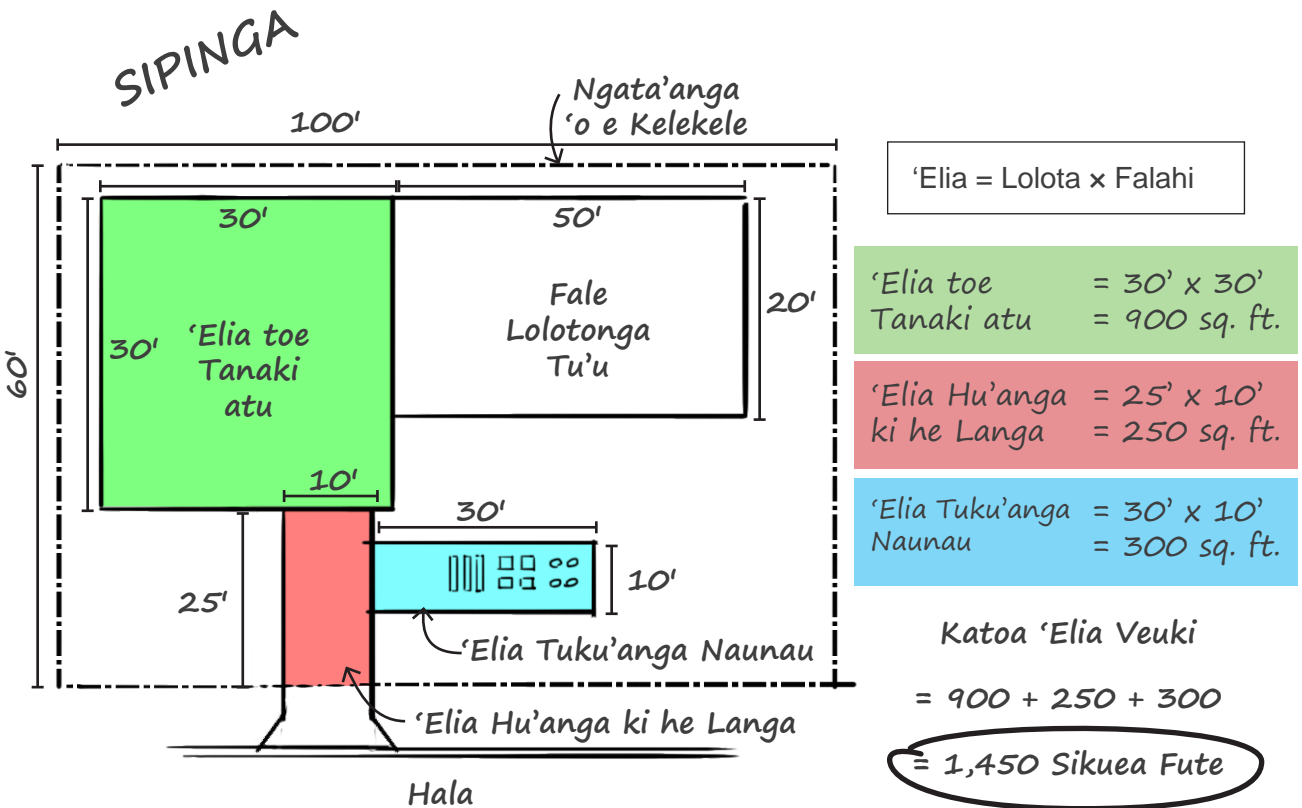
'Elia Kuo Veuki 'oku pehe ko ha 'elia 'oku 'i ai ha kelekele kuo veuki pea 'asi hake mei ai 'a e kelekele.

Sipinga 'o ha kelekele kuo veuki mei ha ngāue pea 'oku kau ai: keli; veteki ha musie, sima pe ko ha vali taa; faka'asi ha kelekele; lele ai ngaahi loli lalahi; keli 'anga, tuku'anga naunau/tanaki; holoki ha fakava'e/fale pea langa ha fale fo'ou; fakatokalelei, ta'aki 'akau pea mo e keli luo.

Ke fika'i 'a e 'Elia Veuki ho Poloseki:

1. Fua 'a e loloa pea mo e falahi 'i he fute 'a e kotoa 'o e kelekele kuo veuki he 'elia 'o kau ai ha hu'anga ki ha langa pea mo ha 'elia tuku'anga/pe tanaki'anga me'a.
2. Liunga 'a e loloa pea mo e falahi ki he 'elia takitaha.
3. Tanaki 'a e ngaahi 'Elia takitaha ne Veuki pe ko ha feitu'u 'e veuki, pea faka'aonga'i kotoa 'a e 'elia kelekele ko ia.

Sipinga: Langa ke Hoko'i ki ha 'Api



'Ikai Sikeila Palani

TAHIFO

Kapau teke Veuki ha 'Elia 'o kau ai kelekele 'oku tahifo, 'oku tonu ke fua 'a e tahifo ko ia pea fika'i. Ke fika'i 'a e tahifo ho poloseki ki he 'Elia Veuki:

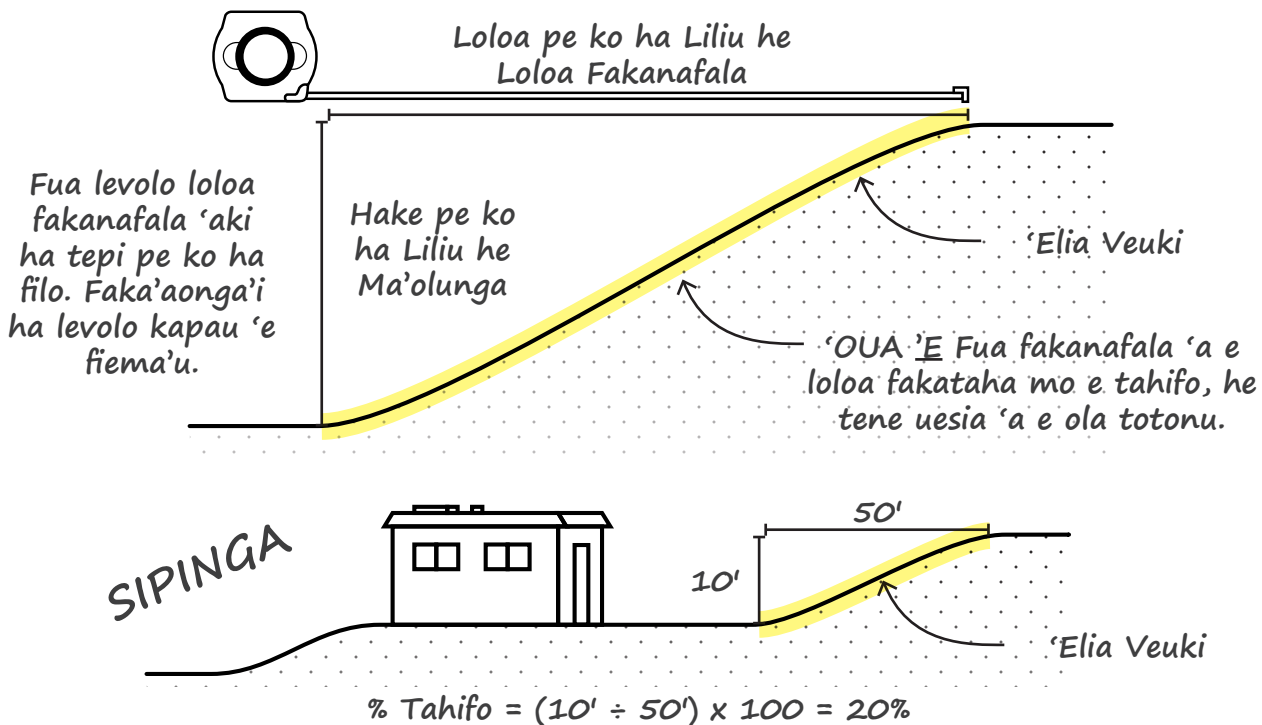
Sitepu 1. Fua 'a e **hake** pe ko ha liliu 'i he ma'olunga 'i he 'Elia kuo Veuki.

Sitepu 2. Fua 'a e **loloa** pe ko e loloa fakanafala ki he ma'olunga 'oku hoko ai liliu. Fakapapau'i 'oku faka'aonga'i 'a e fua tatau 'o e ngaahi 'iuniti (e.g. fute, iate) ko e sitepu 1.

Sitepu 3. Vahevahe 'a e tahake ki he loloa pea liunga 'aki 'a e 100.

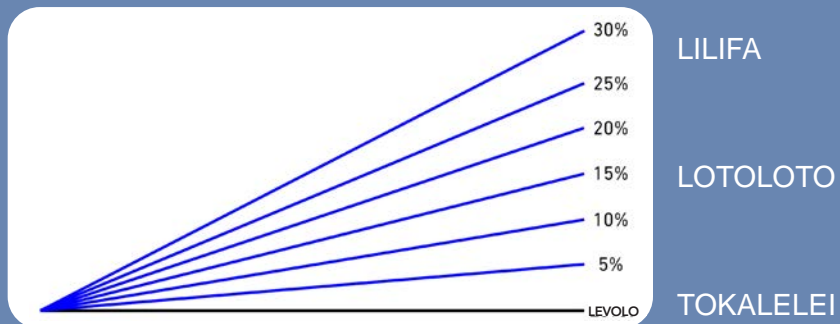
$$\% \text{ tahifo} = (\text{hake} \div \text{loloa}) \times 100$$

Nouti: Kapau ko e tahifo 'oku loloa 'aupito, fua 'a e hake pea mo e loloa ki ha ngaahi feitu'u 'oku si'isi'i. Pea tanaki kotoa 'a e ngaahi hake ke ma'u kotoa 'a e hake pea tanaki kotoa 'a e ngaahi fua lolo ke ma'u kotoa 'a e loloa.



FOUNGA KEHE

Faka'aonga'i saati 'i lalo pea mo ho nima ke sio ki he tahifo 'o e lilifa ki he poloseki pea ke fakafuofua'i 'a e tahifo ki he feitu'u.



KALASI 1A, 1B, 2 PEA MO E FIEMA'U LANGA SI'ISI'I

Kalasi 1A, 1B, 2, pea mo ha Poloseki Langa Si'isi'i 'oku faka'uhinga'i he Kolo mo e Vahenga 'o Honolulu he Potungāue 'o e Palani mo e Pemiti "Lao Ki He Vai Lelei" (Lao Pule Kolo §20-3).

Kalasi 1A, 1B, 2 pea mo ha Langa Si'isi'i 'oku fiema'u ha pemiti langa pea/mo ha fakatokalelei, ta'aki 'akau pe ko ha tuku'anga pemiti pea/pe ko e pemiti keli luo pea 'oku fakakalasi 'o hange koe:

Kalasi 1A Fiema'u Poloseki:

- 'Api ki ha famili-taha pe famili-ua 'oku tu'u makehe hono langa, pea
- Katoa 'a e 'Elia kuo Veuki ki he Poloseki pea 'oku si'i hifo he sikuea fute 1,000, pea
- Ko e 'elia 'o e Poloseki 'oku tahifo pea si'i he 15%.

Kalasi 1B Fiema'u Poloseki:

- Ko ha Langa 'oku si'i he 'eka 'e taha 'a e 'Elia Veuki pea 'e fiema'u ha pemiti langa, ka 'oku 'ikai a'usia 'a e Kalasi 1A ki he Fiema'u Poloseki, pea 'oku 'ikai fiema'u ha fakatokalelei, ta'aki 'aku pe ko ha tanaki'anga pemiti; pe ko ha
- Langa ki ha souni kelekele pe ko ha kongā 'oku fiema'u ha pemiti pea 'oku si'i he sikuea fute 15,000 ki ha nofo'anga famili-taha pe famili-ua pea 'oku si'i he sikuea fute 7,500 ke faka'aonga'i ki ha me'a kehe 'e fiema'u ai ha pemiti pea mo ha fakatokalelei pe ko ha tanaki'anga pemiti.
- 'Api nofo'anga famili-taha pe famili-ua 'oku tu'u makehe mo ha Langa 'oku 'i ai ha 'Elia Veuki ki ha tahifo 'o peseta 15 pe lahi hake.

Kalasi 2 Fiema'u Poloseki:

- Ko ha Langa 'oku fiema'u ha fakatokalelei pe ko ha Tanaki'anga pemiti, 'o 'ikai ko ha pemiti langa fale kapau ko e 'elia 'o e souni kelekele (pe ko ha kongā) 'oku tonu ke ma'u pemiti kapau 'oku si'i he sikuea fute 15,000 ki ha nofo'anga famili-taha pe famili-ua pea 'oku si'i he sikuea fute 7,500 ke faka'aonga'i ki ha me'a kehe.

Ngaahi Langa Si'isi'i

Ko ha Langa 'oku fiema'u ha keli, langa, fakatokalelei, ta'aki 'akau pe tanaki'anga pemiti pea ko e lahi 'o e poloseki 'oku fakangatangata ki he ngaahi 'ekitiviti 'oku lau ia ko e Langa Si'isi'i:

- Fokotu'u ha fakava'e* pe ko ha pou ki ha langa 'o ha 'aa, teki, 'aofi 'ato, pea mo ha 'aa vangavanga ki ha nofo'anga famili-taha pe famili-ua.
- Ngāue ki ha feitu'u 'oku fakangatangata ai Ngāue Kelekele Veuki koe'uhi ko e me'a ngāue pea mo e tuku'anga naunau kuo fakangofua ke fai ngāue ka 'oku 'ikai ko ha kelekjele veuki-e.g. tapuni ha palepale pe ko ha hu'anga pe ko ha hoko funga vaka-ua pea ko e holisi sima 'oku 'i ai 'e tu'u pe ia.
- Ngāue Kelekele Veuki 'oku fakahoko ha lalo 'ato pe ko ha holisi takai pea ko e feitu'u ko ia 'oku ne ta'ofi ha tafe'anga vai ke tafe-mai ki ha 'Elia Veuki.
- Ko e ngāue 'oku ha atu 'i 'olunga 'oku 'ikai he veuki 'o lahi hake he sikuea fute 120 'o e kelekele tukukehe kapau ko ha holisi 'aa, holisi ta'ofi pea ko ha Poloseki hoko ki he 'alu'anga me'alele. (Holisi 'aa, holisi ta'ofi pea mo ha Poloseki hoko ki he 'alu'anga me'alele 'oku si'i he sikuea fute 120 'e fiema'u ha Palani Mapule'i Holo pea mo e Toka'anga Kelekele.)
- Poloseki Keli 'i he hala-tonu 'o e Kolo 'o fakatatau mo ha kongā 'api 'e taha.

* Hokohoko atu (laini taha) fakava'e ki ha 'aa pea mo ha holisi 'oku 'ikai lau ia ko ha Langa Si'isi'i pea 'e fiema'u ha ESCP.

KALASI 1A/1B/2 NGAARI FIEMA'U

Kalasi 1A,1B & 2 Fiema'u Ploseki:

1. Palani Mapule'i Holo pea mo e Toka'anga Kelekele (ESCP) ne teuteu'i he 'ouana 'o e kelekele pe ko ha taha Ma'u Mafai Fakafongona.
2. Ko ha Pule 'o e ESCP (Fakalahi A pe B 'o e Lao) kimu'a pea toki 'oatu 'a e pemiiti.
3. 'Inisipekita feitu'u he Pule ESCP kimu'a pea toki fai e langa pea tu'otaha he 'aho 30 kae 'oua kuo 'osi 'a e langa pe ko e vaeua kapau 'e 'osi 'a e poloseki kimu'a he 'aho 30.

FOUNGA HONO FA'U HA ESCP

- Fakafonu ke 'osi 'a e ESCP Foomu Poloseki Si'isi'i (Tanaki B 'o e Lao) pe ko hono fakakau atu 'a e kongu 'o e nouti mei he palani.
- Taa'i ha Fakatata 'o e Feitu'u he ESCP Foomu Poloseki Si'isi'i pe ko hono fakakau atu 'a e kongu 'o e fakatata palani langa. Peisi 26 'o e tohini 'oku ma'u ai 'a e faka'ilonga 'uhinga ki he fakatata 'o e feitu'u, mo ha ngaahi sipinga keisi ako.
- Fokotu'u ha Taimi 'o e Poloseki ki he fakahokohoko 'o e ngaahi ngaue BMP.

Appendix B

City and County of Honolulu
Erosion and Sediment Control Plan Small Project Template
for Categories 1A, 1B and 2

Construction Site Project Name: _____
Physical Site Address: _____
Building Permit Application Number: _____
Disturbed Area (square-feet): _____

*Disturbed area includes the project area, construction access on adjacent surfaces, and storage staging areas.

Instructions:
Use this template to prepare an Erosion and Sediment Control Plan (ESCP) for projects under the City and County of Honolulu, Department of Planning and Permitting (DPP) Categories 1A, 1B, and 2. This ESCP may be prepared and must be signed by the property owner or an authorized agent designated by the owner. Submit a completed ESCP with the building permit application and keep a copy of the approved ESCP on the job site at all times. Any changes to the approved ESCP must be approved by the DPP.
Refer to the guidance booklet "How to Prepare Erosion and Sediment Control Plan for Small Construction Projects" available on DPP's website (www.honolulu.gov) for more information on each BMP below. Select the BMPs which will be used at the site and if not used, provide a brief explanation for why it is not needed or impracticable for the site.
Designate a certified ESCP coordinator for the project by providing the information on page 6 of this template or sending written notice to DPP (the form is available on DPP's website). The ESCP coordinator is responsible for performing inspections before construction starts and at least once every 30 days until permanent stabilization is in place.

1. EROSION PREVENTION BMPs: practices that prevent erosion from occurring.

1. Permanent Stabilization (REQUIRED)
Prior to closing of any permit(s) permanent stabilization must be in place which includes the following requirements:

- All exposed disturbed areas must be permanently stabilized with ground covering such as vegetation, gravel, or pavers;
- Rain gutters, downspouts, and channelized flows must be installed and functioning as designed;
- In seeded areas, grass or vegetation must cover at least 90 percent of the disturbed soils or must be temporary stabilized while it is growing;
- Temporary measures, such as sediment barriers, should be removed when permanent measures are in place;
- All paved surfaces must be clean; and
- Storm drain inlet filters must be removed after all cleanup activities have been completed.

2. Slope Management and Protection (Categories 1B and 2 only)
Areas disturbed on a slope greater than 15% must be protected when work is inactive for seven (7) days or more.

To find the slope, divide the vertical height of your slope by the horizontal length of your slope and multiply by 100. For example, if your slope measures 3 feet vertically, and 10 feet horizontally, your slope would be 3 / 10 X 100 = 30%.

Check if will be used:

1. Rolled erosion control products	<input type="checkbox"/>	<input type="checkbox"/>
2. Hydraulic mulch or hydrossed	<input type="checkbox"/>	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>	<input type="checkbox"/>
4. Planting and/or vegetation providing at least 70% surface cover	<input type="checkbox"/>	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>	<input type="checkbox"/>

If this BMP will not be used, provide brief explanation: _____

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Appendix B

SITING DIAGRAM

Provide a drawing of your site below or attach another map. Include the building outlines, property boundary or fence line, the limits of where your work will be located, flow arrows indicating direction of storm water runoff, location of BMPs, and any storm drains within 50 feet of your property. The drawing does not need to be to scale.

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NGAAHI FIEMA'U KI HA POLOSEKI LANGA SI'ISI'I

1. Fakafonu 'a e foomu Setifikeiti Langa Si'isi'i pea ke fakamo'oni ai 'a e 'ouna pe ko ha Ma'u Mafai Fakafongoa. Tamaki-si'i ki ha Poloseki Langa Si'isi'i pea 'oku si'isi'i ai ha 'Elia Veuhi (e.g. ki he me'a ngāue pea mo e tuku'anga naunau, keli luo hangatonu) 'oku 'ikai fiema'u Setifikeiti Langa Si'isi'i.
2. Poloseki Langa Si'isi'i 'oku 'ikai kau ai ngaahi fiema'u ia ESCP. Ka neongo ia, kuo pau ke kau 'a e Poloseki Langa Si'isi'i 'a e nouti BMP fakataha mo e fakangofua 'o e palani langa (Kolo pea mo e Vahenga 'o Honolulu Lao Pule §20-3-14(i)(3).

Nouti Mapule'i Holo Kelekele ki he Poloseki Langa Si'isi'i:

- (i) Faka'aonga'i Founa Pule Lelei (BMPs) ke ta'ofi pea holoki 'a e 'uli 'oku 'alu atu mei he feitu'u poloseki ki he tu'a-hala, tafe'anga vai, vaitafe pea mo e 'oseni. Ngaahi 'uli 'oku ka 'oku 'ikai ngata pe he kelekele, lolo, vali, kemikale hu'i, veve mei ha faka'auha, veve, falemalolo mopaila, naunau AC, sima pea ko ha vai, tanu hala pe ko ha vai 'e tafe holo pea 'e lava tuku atu ki he 'ataakai.
- (ii) Ka 'i ai ha kelekele 'oku 'asi mei he ngāue ko'eni kuo pau pe ke fakalele'i fakataimi pe he vave taha 'aki hono faka'aonga'i ngoue, makamaka, tanu hala, naunau malu'i holo kelekele, pe ko ha founa tatau tukukehe kapau 'e lava 'o fakahoko 'a e ngaue kimu'a he 'aho 14.
- (iii) Ko e veve katoa mei he langa pe ko ha vai 'oku tafe ki tu'a kuo pau ke tanaki pea ke faka'auha fakalelei.
- (iv) Ko e kelekele 'oku tafe ki-tu'a kuo pau ke tafi pe vekiumi faka'aho.
- (v) Ko e efu mei he feitu'u poloseki kuo pau ke 'ave pe ko hono fakamavahe'i ki ha 'elia ki-tu'a. Kuo pau ke muimui 'a e ngaue ki he tu'unga pule 'ea 'uli 'oku 'i he Lao Pule 'o Hawai'i: Hingoa 11 Vahe 60.1, "Pule 'Uli 'Ea".

'Sio ki he konga BMPs he tohini ke toe ma'u ha fakamatala ki he BMPs.

Nouti: Ki he §20-3-14(i)(2), ko e Talekita 'o e Potungāue Palani pea mo e Pemitit te nau lava 'o fiema'u mei he 'Ounga 'o ha poloseki Langa Si'isi'i ke nau fa'u pea faka'aonga'i ha ESCP 'aki hono toe fakakalasi 'a e poloseki kapau 'e pehe he Talekita 'oku fiema'u ha 'ESCP.

Lolotonga 'o ha langa, 'e lava ke pehe he 'Inisipekita Langa ko e poloseki 'oku 'ikai ko ha Poloseki Langa Si'isi'i, pea 'e fakahinohino leva 'a e konitulekita ke ta'ofi 'a e ngāue pea ma'u mai ha ngofua mei he ESCP kimu'a pea toki hoko atu 'a e ngāue. 'E \$500 (liunga ua) ESCP ke totongi ki ha ngāue ne kamata ta'e ma'u ha ngofua me he ESCP. 'E toe tanaki atu mo ha mo'ua pa'anga kapau ne hiki loi 'a e foomu pemitit langa.

FAKAHOKO 'A E ESCP

'E kau 'i hono fakahoko ho 'ESCP ha setifikeiti mei he Pule ESCP, fakatau'aki BMP naunau pea mo hono fokotu'u, pea mo fakaha ki he 'inisipekita Potungāue 'o e Palani pea mo e Pemitu ha uike ua kimu'a pea kamata 'a e langa.

PULE ESCP

- Ko e Pule ESCP ko ha taha 'oku lolotonga ma'u setifikeiti Pule mei he Potungāue 'o e Palani pea mo e Pemitu. 'Oku 'i ai 'a e tuleiningi he 'initaneti ke ma'u ai 'a e setifikeiti (sio ki he ngaahi tokoni 'i he tu'a takafi 'o e tohini). 'E lava ke hoko 'a e Pule ESCP ko e 'ouna ia kapau na'ane 'osi fakahoko 'a e tuleiningi he 'initaneti pea ma'u ai 'ene setifikeiti.
- 'Oku fatongia'aki he Pule ESCP ke fakahoko ia he feitu'u 'o e poloseki. 'Oku toe fatongia'aki he Pule ESCP ke fakahoko 'a e fiema'u 'a e 'inisipekita (sipinga he peisi 46 ki he 50), fakahu 'a e lipooti 'inisipekita ki he Kolo pea mo e Vahenga, pea fakapapai 'oku tonu 'a e BMPs hono fokotu'u pea mo hono fetongi kapau na'e fiema'u.
- Kapau 'e fiema'u ke liliu 'a e Pule ESCP lolotonga ho poloseki (e.g. liliu Pule ESCP mei he poloseki fa'u'afa'u ki he konitulekita), faka'aonga'i Tanaki A 'o e Lao.



Sikulini Veve (Biosock)



'Aa Ta'ofi'anga pea mo ha Tokoni



Tangai Tupenu ki he fakalele'i fakataimi 'o ha tahifo



Tangai Pelesitiki ke fakafonu 'one'one pe ko ha makamaka

FEITU'U KE MA'U AI NGAahi NAUNAU

Falekoloa naunau malu'i 'oku ma'u ai ngaahi koloa pea mo e falekoloa langa 'api 'oku toe 'i ai mo e ngaahi naunau.

TAIMI POLOSEKI/TOHI 'O E 'AHO KAMATA 'O E LANGA

Sipinga Taimi 'o ha Poloseki

Fakaha ki he 'Inisipekita Potungāue 'o e Palani pea mo e Pemitu 'oku hiki atu 'i lalo he pemitu langa uike ua kimu'a pea toki kamata 'a e poloseki.

Kapau 'e tokolahi 'a e kau 'inisipekita (e.g. 'uhila, palama, langa), fetu'utaki ki he 'inisipekita pe ko fe 'a e ngaue 'e 'uluaki kamata.

NGĀUE	HOKOHOKO TAIMI
Fakaha ki he Potungāue 'o e Palani pea mo e Pemitu 'a e 'Aho Kamata 'o e Poloseki	Uike 2 pea toki kamata ngāue
Fokotu'u Ngāue ke Malu'i	'Aho 1
Teuteu'i Feitu'u	'Aho 3
Langa (e.g. fokotu'u 'aa ukamea)	Uike 1
Too musie (kau ai taimi ke too ha 70% 'o ha 'elia) pe ko hono fokotu'u ha Me'a Kehe 'e Tauhi ke Tu'uloa	Mahina 2
To'o 'a e Ngāue Malu'i	'Aho 1

TAUHI TU'ULOA

Tauhi Tu'uloa 'oku fakahoko ia he 'osi 'a e ngaue langa pea kuo pau ke fokotu'u ia kimu'a pea toki tapuni 'a e pemitu langa.

'Oku 'uhinga 'a e Tauhi Tu'uloa:

- Ko ha 'Elia Veuki ne Faka'asi pea 'oku tauhi 'o 'ufi'ufi'i 'a e kelekele 'aki ha vao, makamaka, pe ko hono tanu. Kapau ko ha musie, pe faka'aonga'i ha 'akau, kuopau ke ne 'ufi'ufi'i ha 90% 'o e kelekele na'e veuki pe ko e tauhi fakataimi lolotonga 'ene tupu;
- Fakatali, tali'anga vai, pea fokotu'u tafe'anga vai pea 'oku ngāue lelei 'o fakatatau mo hono fa'u;
- 'Oku ma'a katoa 'a e funga hala na'e tanu;
- Tokoni fakataimi pe ko e BMPs, hange koe 'aa ta'ofi'anga pea mo e ta'ofi'anga veve, kuo to'o mo fakamavahe kapau ko e ngaahi me'a tu'uloa kuo fokotu'u; pea
- Tafe'anga vai mo e me'a sivi kuo to'o he 'osi 'a e ngāue katoa hono fakama'a.

TAUHI TU'ULOA

Ko e 'ouna 'o e kelekele pea mo e konitulekitaa 'oku tonu ke na femahino'aki pe ko hai tene 'ave 'a e BMPs. Ko e BMPs fakataimi 'oku tonu ke 'ave he 'osi hono 'inisipekita faka'osi he Kolo 'a e feitu'u ngāue pea tali 'oku sai mo fe'unga 'a e fetu'u 'i hono fakalelei'i.

HU'ANGA TAFE'ANGA VAI / MALU'I TALI'ANGA VAI

1. 'Ave BMP he 'osi hono tali 'oku sai mo fe'unga feitu'u fakalelei'i.
2. Tafi takai 'a e 'elia he hu'anga tafe'anga vai pe ko e tali'anga vai 'oku tatanaki ai 'a e kelekele pe ko ha veve.
3. 'Ave pea faka'auha 'a e kelekele pe ko ha veve na'e tanaki mei he BMP.

NOUTI: Kapau 'e 'i ai ha fakatamaki 'o ha 'uha lahi lolotonga 'o e langa, kuopau ke to'o 'a e hu'anga tafe'anga vai BMPs fakataimi ke 'oua 'e tafea 'a e feitu'u. To'o fakataimi 'a e BMPs kuopau ke nau muimui ki he founa totonu.

TO'O BMP

'AA TA'OFI'ANGA

1. Tukuange ha faingamalie ki he 'akau ke nau tupu. To'o he 'OSI 90% 'akau 'ene tupu, 'o 'ikai kimu'a ai.
2. To'o ha kelekele ne toe pe fihia he tu'a 'aa tafe'anga.
3. To'o ngaahi me'a ta'ofi mo e papa ne tuki.
4. Fakafonu te'etanu, fakatokalelei pea tuki 'a e 'elia.
5. Too ha 'akau he kelekele 'oku 'asi pea mo e feitu'u na'e tu'u ai 'aa tafe'anga na'e to'o.

SIKULINI VEVE, TANGAI 'ONE'ONE & MAKAMAKA

6. To'o BMP he 'osi 'a e langa pea kuo fakalelei'i ke tu'uloa feitu'u.
7. To'o BMP mei he 'elia.
8. Tafi ha kelekele na'e toe.
9. 'Ave toetoenga he ta'ofi'anga veve ki ha 'elia 'akau 'ia, hange ko ha ngoue, pea 'oku ta'ofi ai kelekele- 'IKAI ko ha 'elia 'oku tahifo!

Kapau na'e 'ikai fa'u e ta'ofi'anga veve ke toe faka'aonga'i, fa'o me'a na'e ngaahi 'aki he veve. Ko e me'a ta'ofi'anga veve na'e fa'u ke toe faka'aonga'i 'oku lava pe ke fufulu ha 'elia 'e toe ta'ofi ai 'a e kelekele pea faka'ehi'ehi 'ene toe tafe ki he tafe'anga vai.



To'o 'a e BMP mei he 'elia.



Tafi 'a e kelekele na'e toe.

TAUHI TAHIFO / TAUHI FAKATAIMI

Ko ha tahifo 15% pe lahi ai 'oku fu'u lilifa pea 'e fiema'u ke fai ha tokanga ki ai. Kapau 'e lava, 'oua ue'i ha tahifo 'oku lilifa kapau 'e 'i ai ha 'uha 'e hoko pe ko taimi 'e tali ai ke kamata 'a e ngāue. Kapau 'oku 'i ai ha tahifo lilifa 'oku 'asi pea ko e ngāue 'e ta'ofi ha 'aho 7 pe lahi hake, ngaue malu'i fakataimi/fiema'u leva BMP.

'AKAU



- Too 'akau ke ne pukepuke kelekele. Mahalo 'e fiema'u ha vai.



- Faka'aonga'i sute pe ko ha kakā mei he niu ke pukepuke 'a e kelekele lolotonga tupu lelei tenga'i 'akau.

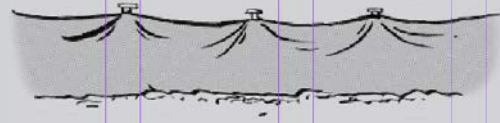
FAKA'AONGA'I ME'A TA'OFI'ANGA VEVE PE KO E 'AA TA'OFI'ANGA

Sikulini veve pe ko e 'aa ta'ofi'anga ko ha sisitema talitali he taimi 'oku too ai tenga'i 'akau. Faka'aonga'i 'i lalo he tahifo pea mo e tafa'aki 'o e poloseki kae 'oua kuo tupu 'akau ha 70% he 'elia.

Sikulini Veve



'Aa Ta'ofi'anga



TAUHI HA TAHIFO/ MALU'I FAKATAIMI

'UFI'UFI'I TAHIFO 'AKI HA FALIKI

Tahifo 'oku 'asi pea lava ke 'aofi 'aki ha kakā 'o e niu pe neti sute ke ta'ofi tafi holo 'a e kelekele.



- 'E lava pe ha 'aofi'anga 'o ha tahifo mo ha kelekele.
- 'Ufi'ufi'i kelekele 'oku lava 'o tauhi ke ma'a feitu'u.



- Fakapapau'i 'oku malu 'a e faliki ki 'olunga pea mo lalo 'o e tahifo 'aki hono siteipolo, fakapipiki, pe tata'o 'aki ha tangai 'one'one.



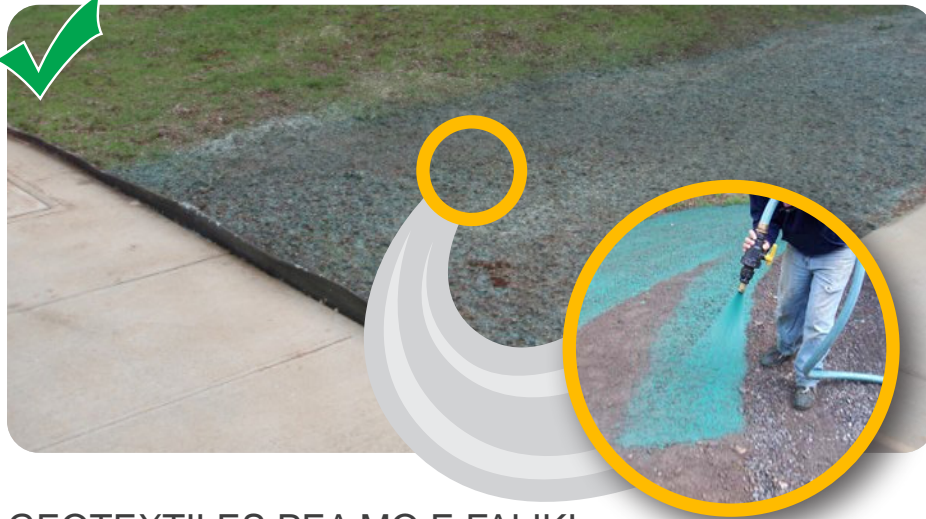
- Pelesitiki pe ko ha tupenu 'oku sai ki ha 'aa 'oku fakatou'asi.

TAUHI HA TAHIFO/MALU'I FAKATAIMI

FANA MOMO'I 'AKAU PE KO E FANA TENGA'I 'AKAU



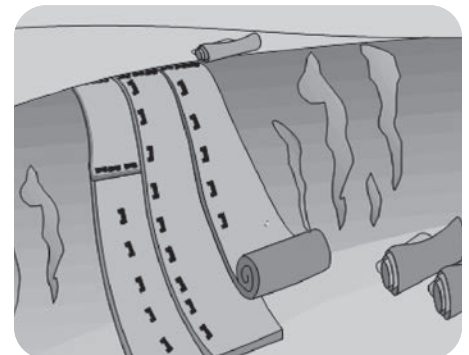
Fana momo'i 'akau ki he kelekele. Fana tenga'i 'akau mo e momo'i 'akau ki he kelekele.



- Pea lahi hono faka'aonga'i he ngaahi langa lalahi.
- Sikulini veve pe ko e 'aa ta'ofi 'i lalo he tahifo kae 'oua kuo 'ufi'ufi'i 'a e 'akau ha 70% ki he 'elia.

GEOTEXTILES PEA MO E FALIKI

'Oku folahi 'a e faliki ki he tahifo ke ne puke 'a e kelekele pea lava pe ke hu ai 'a e vai.



- Geotextiles mo e faliki 'oku sai ki he ngaahi tahifo nounou mo lilifa.
- Ko e ngaahi poloseki lalahi 'oku faka'aonga'i he feitu'u langa.

FAKATAFE VAI 'OLUNGA

'E lava ke tafe mai 'a e vai mei tu'a ki he feitu'u 'o e langa pea ne holoki 'a e kelekele he feitu'u ko ia. 'E lava he Ta'ofi'anga Veve pea mo e 'aa ta'ofi 'i 'olunga he hake ke ne fakasi'isi'i tafe 'a e 'uha ki he feitu'u langa.

'AVE TA'AKI 'AKAU

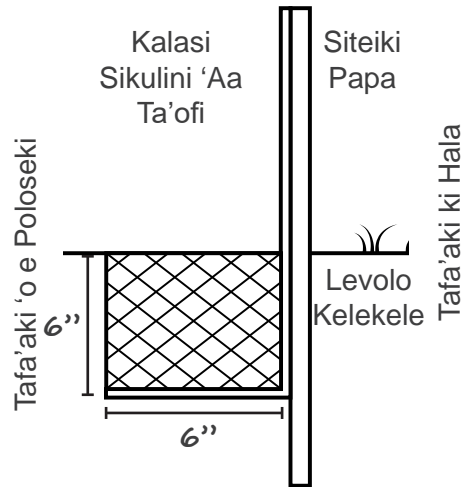
'Oua tuku 'a e veve mo e 'akau ne ta'aki he tahifo telia na'a tafe ki lalo ki he vaitafe pe ko e sisitema tafe'anga vai. Fakamavahe pea malu'i 'a e tahifo 'aki ha naunau 'e 'ikai tafea he vai.

MAPULE'I TU'A 'AA

'AA TA'OFI



'Aa ta'ofi ko ha ta'ofi'anga ne ngaohi ke ta'ofi 'a e kelekele 'i loto he 'aa.



'Aa ta'ofi 'i ha luo 'oku ha'i ki ha me'a he tafa'aki 'o e poloseki 'o e 'aa

- 'Oku sai ki ha 'elia 'oku 'ikai ko ha hu'anga.
- Fakapapau'i ma'u pe 'oku malu 'a e 'aa ta'ofi.

- 'Aa ta'ofi 'i lalo 'o ha luo.
- Fokotu'u 'a e ta'ofi'anga 'o levolo mo e kelekele 'i 'olunga.



- 'Oku 'ikai sai 'a e 'aa 'oku ma'ulalo.
- Vakai'i ma'u pe na'aku 'i ai ha maumau.



- 'Oku sai pe ke hu 'a e vai, ka 'oku fiema'u ke 'omai ha 'aa ta'ofi pea faka'aonga'i sikulini ta'ofi vevehe he tafa'aki 'o e saitiuoka.



- 'Oku fiema'u ke fehili'aki ke ta'ofi 'a e 'uli pea mo e vai 'e hu ai.
- Takai'i 'a e sikulini he pou'anga pea fehili'aki mo e pou'anga hoko ke 'ou 'i ai ha ava he 'ongo vaha'a.

'AA SIKULINI

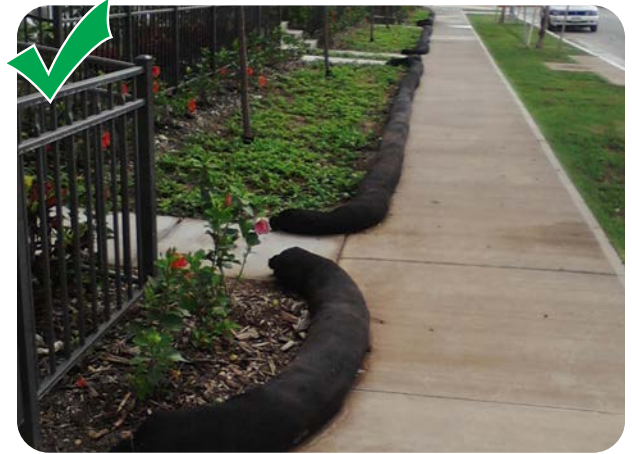
Ko e 'aa sikulini, 'oku toutou faka'aonga'i, ko ha 'aa 'oku ne sikulini 'a e kelekele pea tukuange 'a e vai ke hu ai.



MAPULE'I TU'A 'AA

TA'OFI'ANGA VEVE

Ta'ofi'anga veve ko ha tiupi sikulini 'oku fakafonu 'aki ha me'a, faipa pea ko ha 'akau kehekehe. 'Oku lelei ia ki ha tahifo lahi 'aupito, tuku'anga me'a, pea mo hono fokotu'u ha kelekele, pea mo ha 'elia 'oku lahi hono 'alu ai he 'oku faingofua 'ete tu'u ai. Ko e ngaahi sikulini 'oku fakafonu kuo pau ke lahi hake he 'inisi 8 hono falahi.

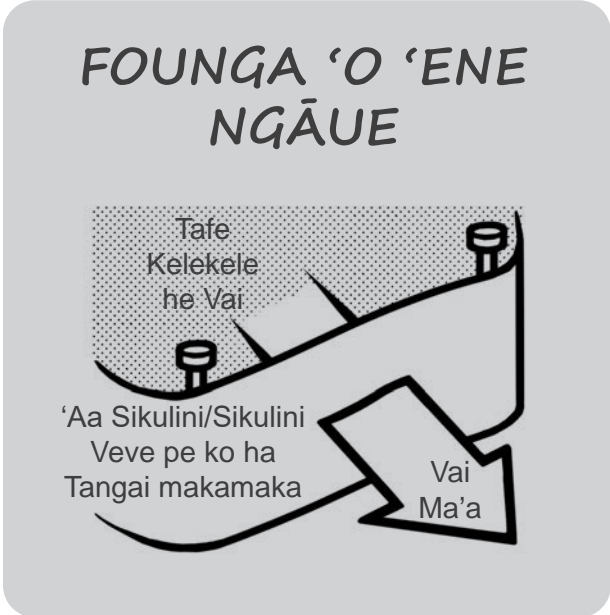


- Fehili'aki 'a e ta'ofi'anga veve ha 'inisi 6 pe toe lahi hake ke ta'ofi vai 'ene hu ki tu'a.
- Tauhi ma'u ai kae 'oua ku tupu katoa 'a e 'akau.
- Takai'i 'a e mui'i sikulini ta'ofi veve (pea mo e ta'ofi veve) ki he tafe mai 'o e vai ke ta'ofi pea ma'u ai 'a e vai mo e kelekele ke 'oua tafe ki tu'a ki he tafe'anga vai.
- Mahalo 'e fiema'u ha siteiki ke puke'i 'a e sikulini ta'ofi veve he taimi 'o ha 'uha lahi.

TANGAI 'ONE'ONE & MAKAMAKA



- 'E lava pe ke faka'aonga'i tangai 'one'one pe ko e makamaka 'o 'ikai ko e sikulini ta'ofi'anga veve.
- 'E lava pe ke faka'aonga'i 'a e tangai 'one'one pe ko e makamaka ke malu'i ha fa'ahinga sikulini.



MALU'I TAFE'ANGA VAI KI LOTO

Malu'i loto tafe'anga vai, tautautefito ki ha fute 50 mei ho poloseki.

Kimu'a pea toki hoko ha 'uha, to'o 'a e ngaahi ta'ofi'anga vai ke faka'ehi'ehi mei ha tafea; toe fokotu'u he 'osi.

TAFE'ANGA VAI HE KEEPPI (CURB)



- Hoko'i atu sikulini ta'ofi veve ki he ngata'anga 'o e tafe'anga vai ke 'oua tafenoa vai.



- Ngaohi ke malu 'a e ngata'anga 'o e me'a ngāue malu'i ko'eni.



- Ngaohi pea tauhi 'a e me'a ngāue ki he tafe'anga vai ke 'oua na'a holo.
- Toutou vakai'i 'ene malohi.

ME'A TA'OFI HU'ANGA VAI



- Fokotu'u ha sikulini 'aa ta'ofi'anga vai.



- Fokotu'u takai ha 'aa sikulini he matapaa.

BMP PEA MO E TAUHI FEITU'U

Kalasi 1A pea mo e 1B poloseki 'e fiema'u ke fakahoko ha 'a'ahi 'inisipekita 'o fakatatau mo e lao 'a e Kolo. Ko e 'ikai lava ke fakahoko 'a e 'a'ahi 'inisipekita 'e lava ke fakahoko ha mo'ua pa'anga mo ha ngaahi tautea. Kalasi 1A pea mo e 1B Poloseki 'e fiema'u 'a e si'isi'i taha 'o e 'a'ahi kau 'inisipekita ke fakahoko 'o tatau mo e Pule Palani Mapule'i Holo pea mo e Toka'anga Kelekele (ESCP):

- **Mu'aki 'Inisipekita Langa:** Ko e 'inisipekita kimu'a pea toki fai 'a e ngaue he poloseki pea ke fakapapau'i ko e ngaahi ngāue malu'i ne fakamatala atu he ESCP kuo fokotu'u pea mo ngāue lelei.
- **'Inisipekita Lolotonga 'o e Langa:** 'E fakahoko 'a e 'inisipekita tu'a taha he 'aho 30 kotoa pe. Ko e ngaahi poloseki 'e 'osi kimu'a he 'aho 30, 'e fakahoko ha 'inisipekita he vae'ua'anga 'o e poloseki.
- **'Inisipekita 'Osi-Langa:** Ko ha 'inisipekita he 'osi 'a e poloseki ke fakapapau'i ko e 'e'lia na'e veuki kuo fakalele'i pea mo e ngaahi ngāue ke malu'i fakataimi (e.g. 'aa sikulini malu'i tafe'anga vai, etc.) kuo to'o. Fakahu 'a e lipooti 'inisipekita pea mo e fakalelei'i 'e tu'uloa 'e fiema'u ia ke tapuni'aki 'a e pemitu langa.

Faka'aonga'i Tanaki C 'o e Lao Kau ki he Vai Lelei ki he lipooti 'a e 'inisipekita. 'Oku 'i ai ha sipinga 'oku ha atu he kongā 'o e 'inisipekita he tohini.

LOLOTONGA 'O E TAUHI

- Lolotonga 'o e 'inisipekita, vakai'i 'a e ngaue malu'i/ BMPs pe 'oku tonu hono fokotu'u.
 - Ngaahi 'aa sikulini 'oku ha'i lelei pea 'oku nau fehili'aki.
 - Sikulini Ta'ofi Veve 'oku mapelu hange ha huka ki he tafe'anga vai pea/mo fehili'aki 'o lahi hake he 'inisi 'e 6.
 - Tanaki'anga 'oku 'ufi'ufi'i pea mo malu.
- Kapau ne fokotu'u ha BMP pea 'ikai ngaue lelei, mahalo 'e toe fiema'u ke tanaki atu ha BMPs 'o fokotu'u.
- Kapau ne maumau ha BMP, fakalelei'i pe ko e fetongi'i.
- Toe-fokotu'u pea fakapapau'i ko e 'aa sikulini pea mo ha ngaahi naunau kehe 'oku 'ikai too ki lalo.



MAPULE'I EFU

ME'A FU'IFU'I VAI

- 'E lava ke faka'aonga'i vai ke 'oua puhi takai holo 'a e kelekele.
- Mahu'inga hono Lahi: faka'aonga'i fe'unga 'a e vai ke tauhi 'a e kelekele 'i hono feitu'u – 'o 'ikai lahi 'a e vai pea tafe atu ki ha feitu'u kehe pe ko ha pipiki ki he va'e 'o e me'alele. Ko e lao anga maheni ke tapu ha ano pe tafe vai.
- Toutou faka'aonga'i ma'u pe vai.



TU'U'ANGA TALI EFU



- Tu'u'anga tali efu 'oku ne ta'ofi efu mei he takai holo pea malu'i 'a e kaunga'api mei he efu pea mo e veve. Nouti: 'Oku 'ikai faka'aonga'i ha 'aa tali efu ko ha 'aa sikulini.
- Faka'aonga'i tu'u'anga tali efu he feitu'u 'oku lahi Matangi pea mo e feitu'u 'oku lilifa ha tahifo.

MOMO'I

Momo'i (papa pe makamaka), 'oku loloto 'aki 'inisi 1, pea lava ke faka'aonga'i ke mapule'i efu he feitu'u ngaue.

FOUNGA TAUHI SIMA MAFAHIFAHI



- 'E lava pe ke faka'aonga'i ha ki'i vai ano ke hu'i 'aki sima. 'Aofi 'a e vai fufulu he 'osi 'a e 'aho pe kimu'a ha 'uha. To'o 'aofi lolotonga 'a e ngāue ke inumia he 'ea. To'o 'a e vai fufulu pea 'ave kitu'a mei he feitu'u ngāue.



- 'Ai ha faliki he koniteina fetuku sima ke ta'ofi pipihi mo e hafu 'a e sima.
- Fengāue'aki ke solova pea mo e lahi 'a e vai fufulu 'e faka'aonga'i.



- Fufulu ho nima, puti pea mo e me'a ngāue 'i ha koniteina pe ko ha kane lahi pea 'ave ki tu'a mei he feitu'u ngāue'anga.
- Me'a ngāue mo e ngaahi naunau 'e lava pe mo ia 'o fufulu ha feitu'u kehe.



- 'Oua 'e hu'i 'a e sima pe fufulu hifo he saitiuoka pe ko e hala
- Ko ha maumau lao hono fufulu 'a e sima, vali mo ha ngaahi me'a kehe he tafe'anga vai pea 'e lava pe ke mo'ua pa'anga.
- 'Oua tuku ke hua'i ha hu'i sima hangatonu pe he kekekele.

TAUHI TUKU'ANGAME'A

Ta'ofi ngaahi naunau tuku'anga mei he tafe'anga vai. 'Ufi'ufi'i naunau 'e 'ikai faka'aonga'i he uike taha.



- Tahī naunau he feitu'u ngāue.
- Tauhi mavahe mei he hu'anga vai.
- Kapau 'e lava ko e tuku'anga naunau ke mavahe mei he ngaahi ngata'anga 'o e feitu'u ngāue.
- Faka'ehi'ehi mei hono 'ufi'ufi'i ngaahi 'iutiliti hange ko e paipa vai, fakama'a paipa, puha 'uhila, etc.



- 'E lava ke fehili'aki 'ufi'ufi'i, 'as sikulini/sikulini efu pe ko ha pelesitiki.
- Fakama'u 'ufi'ufi ke malu mei he 'uha mo ha matangi lahi.



- Tauhi tuku'anga naunau ke mama'o mei he hu'anga tafe vai pea mo e 'alu'anga me'alele 'oku tahifo ki he hala pea mo e hu'anga tafe vai.
- Ta'ofi 'a e naunau tuku'anga ke 'oua ngangana ki he hala. 'Oku hoko 'a e naunau mahua ko ha palopalema 'uli pea mo ha fakatamaki ki he malu'i.

MAPULE'I NGAahi ME'ALELE

Ngaahi me'alele 'oku nau 'alu ki tu'a 'oku nau 'ave veve ki he hala pea tafe mei ai ki he tafe'anga vai.

FOKOTU'U HA 'ELIA KI HE ME'ALELE

- Fakangata pe 'a e me'alele ki he 'elia ne fokotu'u 'o 'ikai fe'alu'aki me'alele he feitu'u ngāue.
- Faka'aonga'i hala tanu pe ko e hala makamaka ki he 'alu'anga 'o e me'alele kapau 'e lava.

'ELIA FUFULU VA'E ME'ALELE

- Fufulu va'e me'alele ha 'elia makamaka pea ke to'o 'a e 'uli kimu'a pea toki hu ki tu'a.



MAKAMAKA PEa MO HA SIKULINI HE MATAPA HU'ANGA

'Oku tokoni 'a e makamaka ke to'o 'a e 'uli mei he va'e me'alele pea fihia he vaha'a makamaka.



- Faka'aonga'i ha makamaka he matapa hu'anga ke to'o 'a e 'uli mei he va'e me'alele kimu'a pea toku hu ki tu'a mei he 'elia 'o e poloseki.
- Faka'aonga'i 8-12 'inisi pe ko e No. 2 (pe No. 2 & 4) makamaka he feitu'u hu'anga/hu ki tu'a.
- Fokotu'u ha sikulini 'i lalo he makamaka ke ne inu 'a e vai.
- Fulifulihi ma'u pe makamaka ke 'alu 'a e kekele ki lao pea lava ai ke toe to'o 'a e 'uli mei he va'e 'o e me'alele.

TAFI 'A E 'ULI HE HALA



- 'E lava he BMPS 'o to'o lahi 'a e 'uli kae 'ikai kotoa mei he hala. 'Oku fiema'u ke tafi.
- 'Oua 'e fufulu ha 'uli ki he hala pe ko e hu'anga tafe vai.

KOLOA HU MAI, TUKU'ANGA PEA FOUNGA FAKA'AONGA'I

Fokotu'u lelei 'a e naunau 'oku ne ta'ofi 'a e naunau ke 'oua mahua ki he kelekele pea tafe fakataha mo e 'uha.

- Fakasi'isi'i hono 'omai 'o tauhi ha naunau fakatamaki he feitu'u ngāue.
- 'Oua 'e tuku ha naunau 'o ofi ki he sisitema tafe'anga vai pe ko ha vai tafe.
- Tuku 'a e ngaahi naunau ha 'elia kuo 'osi 'ilo'i pea fokotu'u ha me'a ke malu'i.
- 'Ufi'ufi'i 'a e ngaahi naunau pe tuku ha feitu'u 'oku 'ato'i.
- 'E lava pe ke ngaahi ha puha papa he feitu'u ngāue pea faliki 'aki ha pelesitiki; 'oku tonu he 'i ai hano 'ato pe ko ha 'ufi'ufi 'aki ha pelesitiki ke 'oua fonu vai.



Nouti: Tauhi lelei tuku'anga naunau mei he 'ume'umea pea mo tauhi ke lelei 'a e naunau ko ia.

TA'OFI MAHUA PEA MAPULE'I

- Tuku ofi mo mateuteu ha peketi fakama'a mahua pe ko hono tuku ha me'alele.
- 'Oku tonu ke 'ilo'i he kau ngāue 'a e tuku'anga peketi mahua mo e founga hono faka'aonga'i.
- 'E lava ke faka'aonga'i kitty litter ki he mahua. 'Osi hono faka'aonga'i, 'oku tonu ke tafi pea 'ave ki he feitu'u totonu.

TAUHI FETUKU VEVE

TAUHI FEITU'U KE MA'A

- Fakama'a faka'aho, pea 'oua tukuanga ke puhi takai holo 'a e veve.
- 'Ilo'i 'a e feitu'u hiko'anga veve, langa pea mo e veve na'e holoki (demolition).

TAUHI NGA'AHU PIN VEVE

- Palani ke fetuku ma'u pe 'a e veve; 'oua tuku 'a e kapa veve ke hake ki tu'a.
- Kapau 'e lava, tuku 'a e pini veve/kapa veve he feitu'u ngāue. Kapau ko ha pini 'oku tuku he ve'e hala, 'e fiema'u ha pemitu ki ai (<http://bit.ly/2kLeEu9>).
- 'Ufi'ufi 'a e veve ke ta'ofi 'a e vai mei he veve pea tafe ai ki he sisitema tafe'anga vai.
- 'Oua 'e faka'anga'i ha pini 'oku mama; fakalelei'i pe fetongi'i.

FALEMALOLO MOPAILA

Tauhi ke malu toilet mopaila ke 'oua mahua ki he sisitema tafe'anga vai.



- 'E lava ke faka'aonga'i 'o ha'i pea poloka CMU, siteiki, pe ko ha tangai 'one'one ke fakama'u 'a e toilet mopaila. (Toileti tangike ua 'oku mamafa pea ma'u ange ia he tangike pe 'e taha.)
- Fokotu'u ke mama'o 'a e toileti mei he tafe'anga vai.
- Palani hono tauhi fakama'a ke faka'ehi'ehi mei ha fonu 'o mahua ki tu'a.

TAUHI VAI KUO 'OSI FAKA'AONGA'I

- Tauhi lolo, Kasa, ngako, kemikale vali, pea ko e kulu ha kane 'oku tapuni pe ko ha tangike pe ko hono fakamavahe mei he feitu'u ngāue.
- Ko hono fakama'a vali leta (latex), 'e lava ke faka'aonga'i ha kane kalani-5 'oku tapuni pea mo ha vai ke fakama'a. 'E lava ke 'ave 'a vai fufulu ki ha feitu'u hange ko e sua.
- Ko e tepi holisi pea mo e fakapipiki (mud) holisi ke tauhi 'i ha puha (puha papa 'aofi'aki pelesitiki) pea, taimi 'oku matu'u ai, pea 'ave 'o li ki he veve. 'Oua 'ave fakapipiki holisi ki he tafe'anga vai telia na'a fefeka pea poloka 'a e paipa.
- Toe sio ki he Pule'i Veve Fakatamaki BMPs.

FAKAMA'A ME'ALELE MO E ME'A NGAUE, 'UTU KESI PEA MO E NGAOHI



- Faka'aonga'i ha kane pe ko ha pelesitiki 'i lalo he misini ki he hafu 'o ha lolo pe ko ha kasa.
- Faka'aonga'i takai 'a e sikulini ta'ofi'anga veve he ngaahi misini 'oku tau he hala.
- Holoholo'i 'a e ngaahi me'a lele pea 'oua 'e fana vai he feitu'u ngāue.
- Ta'ofi 'a e lolo ke 'oua tafe ki he tafe'anga vai.
- Ko hono tukuange ha lolo ki he tafe'anga vai ko ha maumau lao pea 'e lava ke mo'ua pa'anga.

TAUHI VEVE KONA

Ta'ofi ke 'oua hu 'a e veve fakatamaki ki he tafe'anga vai pea faka'aonga'i naunau totonu ki hono faka'auha.

- Ki he Vali leta: Tuku ke matu'u pea 'ave ki he pini veve pe ko e kapa veve. Fetongi 'a e tapuni kimu'a pea 'ave ki he veve pe hono 'ave ki he tuku'anga.
- Ki he vali-ngaohi'aki-lolo: Faka'aonga'i ha peketei fetongi lolo pe ko ha tangai 'oku ne inumia kimu'a pea toki 'ave ki he veve.
- 'Ave faito'o kona kuo 'osi, veve fakatamaki pe ko ha pini vali ki he veve.
- Sio ki hono Pepa Teita Malu'i (SDS) ke toe ma'u ha fakamatala ki he founa totonu hono faka'aonga'i pea mo hono faka'auha.
- Ke toe ma'u ha fakamatala 'alu ki he www.opala.org

TAUHI KELEKELE KONA

Kapau 'oku pehe ko e keleke 'oku kona, 'ufi'ufi'i 'a e tuku'anga naunau 'aki ha pelesitiki pe ko ha taapi (tarp) pea fokotu'u ha 'aa (berm) ke ta'ofi ha tafe ki tu'a. Uta 'a e kelekele 'o 'ave ki hono feitu'u totonu.

Kapau 'oku kona mo fakatamai 'a e kelekele, ngaue fakataha mo e Potungau'e 'a e Siteiti 'o e Health Solid pea Hazardous Waste Branch ke fa'u ha founa ki hono faito'o pea/mo hono 'ave ki ha feitu'u totonu.

TAA PALANI FEITU'U

'E fiema'u ke fakakau 'a e ngaahi me'a ko'eni 'i ho palani fakatata 'o e feitu'u:

Ngata'anga 'o e Kelekele

Taa'i 'a e ngata'anga 'o e kelekele (sio ki he puha 'i lalo).

Fale Lolotonga Tu'u

Taa'i takai 'a e ngaahi fale 'oku lolotonga tu'u (sio ki he puha 'i lalo).

Tafe'anga Vai

Nouti ha ngaahi tafe'anga vai 'oku fute 50 mei he feitu'u 'o e poloseki. 'E lava 'o faka'aonga'i ha tao mo ha fakamatala nouti 'ene mama'o mei he feitu'u 'o e poloseki.

'Oku ke fiema'u ha tokoni ke 'ilo'i 'a e tafe'anga vai 'oku 'ofi mai? 'Alu ki he: honolulu.org ke ma'u 'a e to'anga vai pea mo e ta'ofi hu'anga vai.

Fakangatangata 'o e Ngāue

Taa'i ha "ao" (sio ki he faka'ilonga mape) he 'elia 'o e ngāue'anga.

Tafe Vai

Faka'aonga'i ha tao pikopiko ke 'asi 'a e feitu'u tafe ki ai 'a e vai. 'Oku tafe hifo ki lao 'a e vai.


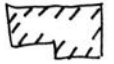
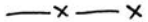




Ngāue Ke Malu'i /BMPs

Maaka'i 'a e ngāue malu'i ('oku 'iloa ko e Founa Pule'i Lelei Taha pe ko e BMPs) ke faka'aonga'i he fakatata palani. 'Oku tonu ke 'asi ai 'a e fakakalasi pea mo e lahi 'o e poloseki ki hono ta'ofi 'a e kelekele mo e veve 'ene 'alu ki tu'a.


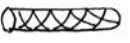

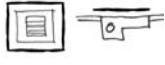



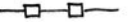


'Oku 'oatu he faka'ilonga mape ke faka'aonga'i he Fakatata 'o e Feitu'u. 'E lava ke fakapipiki 'a e faka'ilonga mape ki he Fakatata 'o e Feitu'u pe faka'aonga'i ha leipolo he mape.

Faka'ilonga Fakatata 'o e Feitu'u

Tu'unga 'o e Feitu'u

	Ngata'anga 'o e Kelekele
	Fale Lolotonga Tu'u
	'Aa
	Fakangatangata 'o e Ngāue
	Too'anga Tafe'anga Vai/ Hu'anga
	Hu'anga Tafe Vai Tokalelei
	Feitu'u 'oku Tafe ki ai Vai

Ngāue Malu'i (pe BMPs)

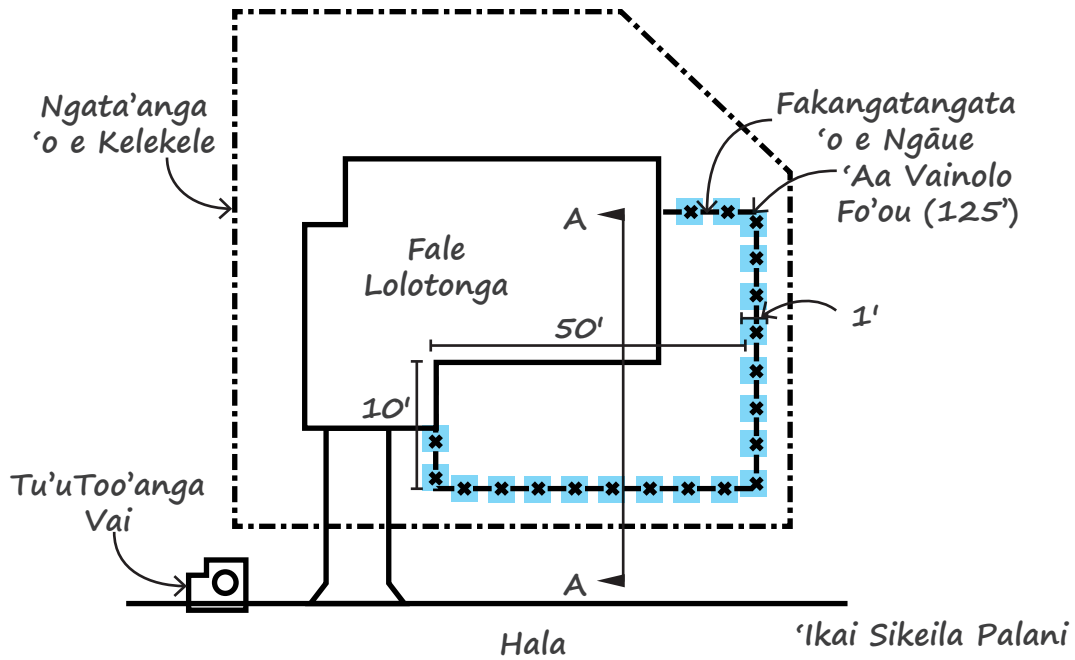
	'Aa Ta'ofi
	Sikulini Veve
	Tangai 'One'one/Makamaka
	Too'anga Vai/Malu'i Tafe'anga
	'Akau
	Faliki pe ko ha Pelesitiki 'Ufi'ufi
	Akau Momo/Fana Tenga'i 'Akau
	Tali'anga Efu
	Makamaka
	Tu'unga Lelei Hu'anga/Hu Ki Tu'a mei he Langa

TOE FIEMA'U HA FAKAMATALA KI HE NGATA'ANGA 'O E KELEKELE & FALE LOLOTONGA TU'U?

'Alu ki he uepisaiti Honolulu RealProperty (www.qpublic.net/hi/honolulu) pe ko ho'o kumi 'a e tu'asila.

- Ko ha Fakamatala ki he Ngata'anga 'o ha Kelekele:
Lomi'i he GIS Parcel Map. Ko e Kelekele 'oku 'asi hono laine'i he mape mei 'olunga. Faka'aonga'i me'a ngāue fua 'i 'olunga he peisi (lomi'i he kamata pea mo e ngata'anga 'o e laine).
- Ko ha Fakamatala ki he Fale Lolotonga Tu'u:
Lomi'i ke Asi Fakatata Fale ki he fotunga 'o e fale pea mo hono lahi.

KEISI AKO 1: 'AA PELESITIKI (LANGA SI'ISI'I)

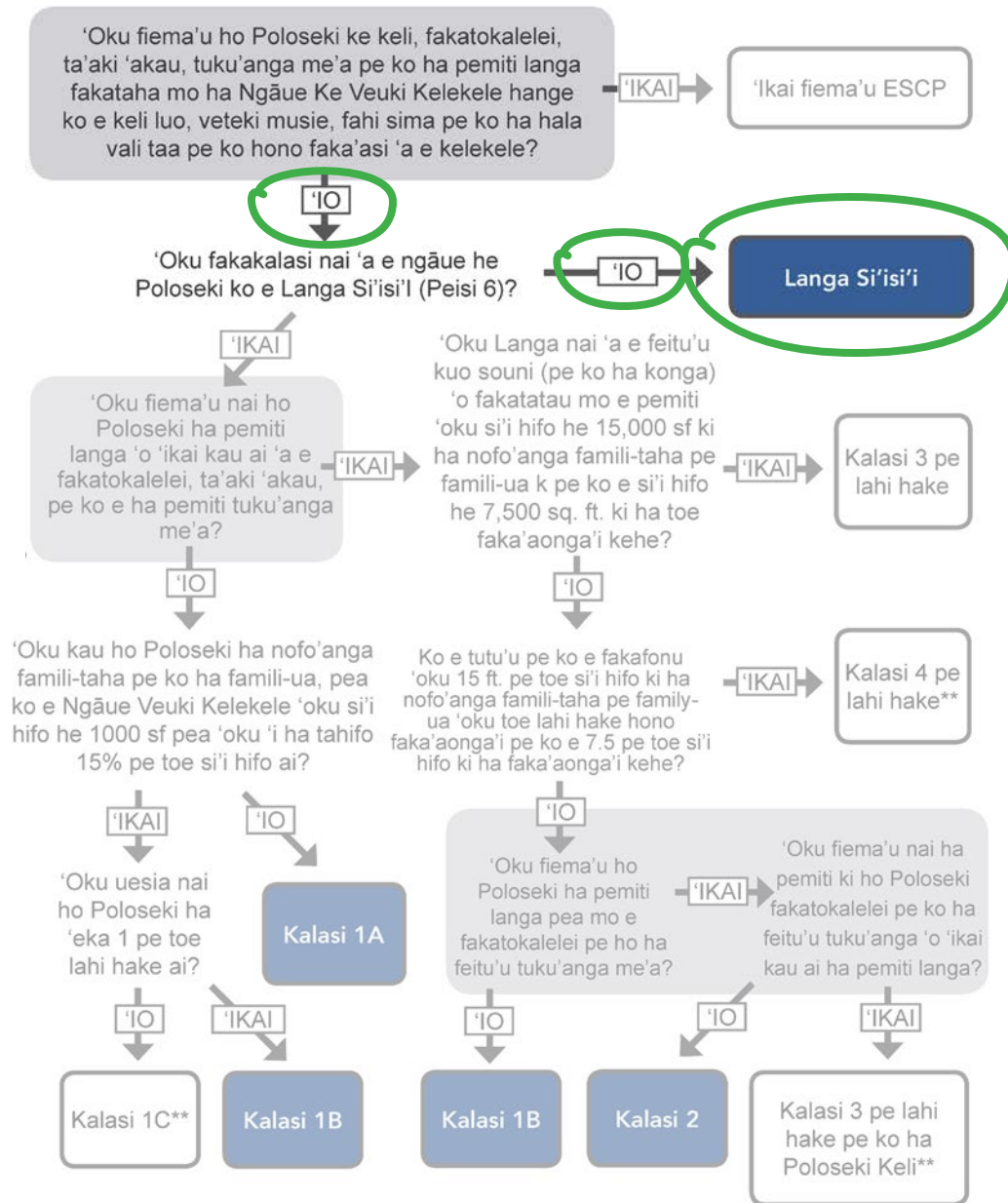


'ELIA VEUKI

'Elia 'Aa Vainolo = 20 'aa pou x (1' x 1')
= 20 sq. ft.

Katoa 'Elia Veuki = 20 Sikuea fute

KEISI AKO 1: 'AA PELESITIKI (LANGA SI'ISI'I)



FIEMA'U POLOSEKI

- Pemitu Langa ki ha 'aa vainolo ki ha nofo'anga famili-taha pe ko ha famil-ua
- Setifikeiti Langa Si'isi'i

KEISI AKO 1: 'AA PELESITIKI (LANGA SI'ISI'I)

MINOR DEVELOPMENT CERTIFICATION

Construction Site Project Name: Vinyl Fence

Physical Site Address: 1234 O'ahu St.

Building Permit Application Number: #12345678

1. I certify that the total project scope falls under the Minor Development category checked below.

Check one:

- The installation of temporary BMPs;
- Land Disturbing Activity that takes place completely under a roof or other enclosure and where existing site conditions preclude storm water run-on to the Disturbed Area;
- The construction of individual bus shelters;
- The installation of footings or posts for the construction of fences, decks, roof coverings, and trellises for single-family or two-family dwelling use;
- Trenching project that takes place in the City right-of-way for laterals serving one property;
- Borings;
- Work not listed above that disturbs no greater than 120 square feet of land, except for fence wall, retaining wall, and driveway apron projects.

Disturbed Area (square-feet)*: 20 sq. ft.

*Disturbed area includes the project area, construction access on unpaved surfaces, and storage/ staging area(s).

Describe the project and all land disturbing activities (Required):

A new vinyl fence with posts.

2. I am aware that there are significant penalties for submitting false information, including the possibility of fine for knowing violations. I am also aware that any person violating the provisions of the Rules Relating to Water Quality may be ordered to pay an administrative or civil penalty of not less than \$1,000.00 nor more than \$25,000.00 per violation per day.
3. Upon inspection, if there are land disturbing activities which are not considered Minor Development or the site is found in noncompliance with the Rules Relating to Water Quality, enforcement actions require that my project is recategorized to require an ESCP. Work may be stopped until the ESCP is approved and an ESCP Coordinator is designated for the project.

John Smith

Owner / Authorized Agent Name*

(*Provide Letter Designating Authorized Agent Form if Different from owner)

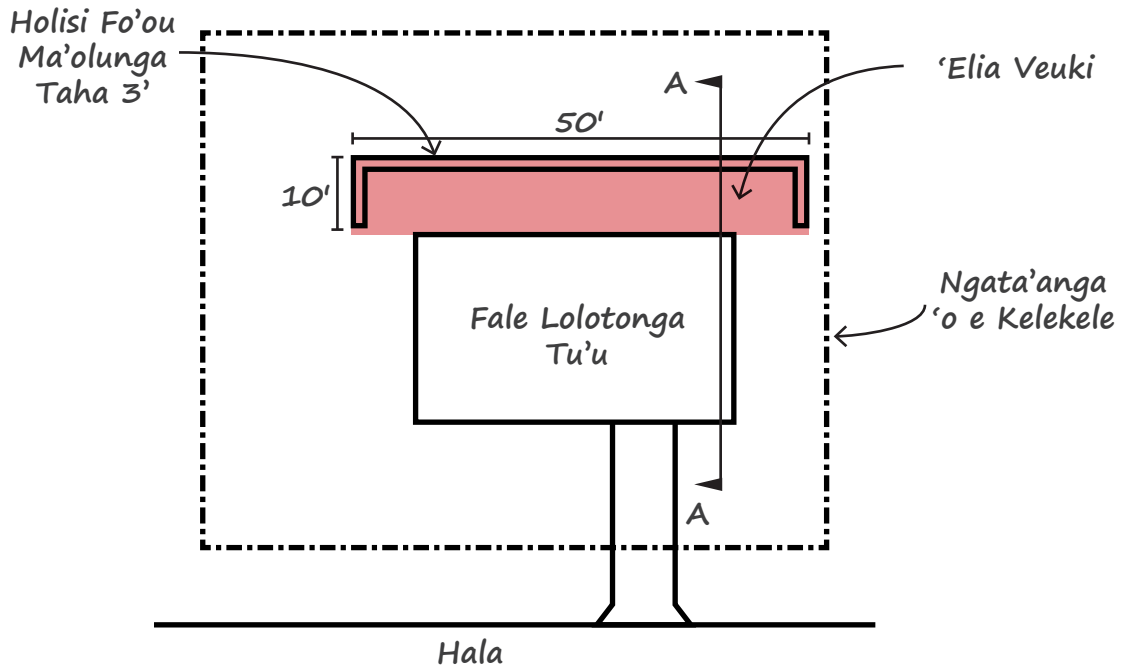
John Smith
Signature

4/4/2019

Date

Rev. 03/26/2019

KEISI AKO 2: HOLISI TA'OFI FO'OU (KALASI 1A)



'ELIA VEUKI

'Ikai Sikeila Palani

'Aa Holisi pea mo e = 10' x 50'
'Elia 'e Fakafonu = 500 sq. ft.

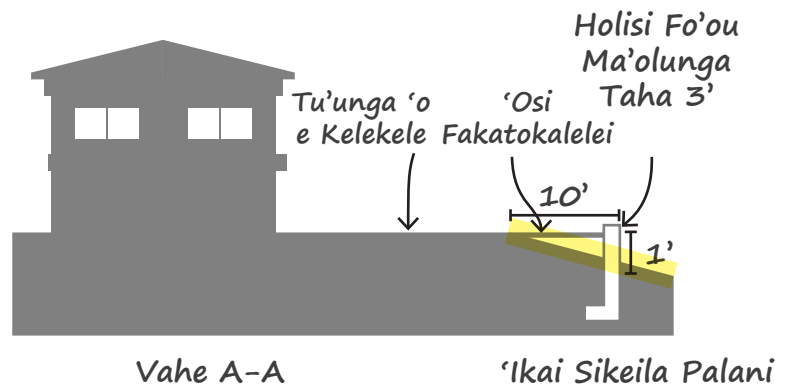
'Elia Katoa kuo Veuki
= 500 Sikuea Fute

TAHIFO

Liliu ki he ma'olunga 'o e 'elia poloseki 'oku 1' lafalafa loloa 'o e 10'.

$$\% \text{ Tahifo} = (1' \div 10') \times 100$$

= 10 %



KEISI AKO 2: HOLISI TA'OFI FO'OU (KALASI 1A)

Appendix B



City and County of Honolulu

Erosion and Sediment Control Plan Small Project Template
for Categories 1A, 1B and 2

Construction Site Project Name: Mr. Smith's New Retaining Wall

Physical Site Address: 1234 O'ahu Street

Building Permit Application Number: 2018-00-0000

Disturbed Area (square-feet)*: 500 sq. ft.

*Disturbed area includes the project area, construction access on unpaved surfaces, and storage/ staging area(s).

Instructions:

Use this template to prepare an Erosion and Sediment Control Plan (ESCP) for projects under the City and County of Honolulu, Department of Planning and Permitting (DPP) Categories 1A, 1B, and 2. This ESCP may be prepared and must be signed by the property owner or an authorized agent designated by the owner. Submit a completed ESCP with the building permit application and keep a copy of the approved ESCP on the job site at all times. Any changes to the approved ESCP must be approved by the DPP.

Refer to the guidance booklet "How to Prepare Erosion and Sediment Control Plan for Small Construction Projects" available on DPP's website @ www.honolulu.dpp.org for more information on each BMP below. Select the BMPs which will be used at the site and if not used, provide a brief explanation for why it is not needed or impracticable for the site.

Designate a certified ESCP coordinator for the project by providing the information on page 6 of this template or sending written notice to DPP (the form is available on DPP's website). The ESCP coordinator is responsible for performing inspections before construction starts and at least once every 30 days until permanent stabilization is in place.

I. EROSION PREVENTION BMPs: practices that prevent erosion from occurring.	
1. Permanent Stabilization (REQUIRED)	
Prior to closing of any permit(s) permanent stabilization must be in place which includes the following requirements:	
<ul style="list-style-type: none"> All exposed disturbed areas must be permanently stabilized with ground covering such as vegetation, gravel, or pavers; Rain gutters, downspouts, and channelized flows must be installed and functioning as designed; In seeded areas, grass or vegetation must cover at least 90 percent of the disturbed soils or must be temporary stabilized while it is growing; Temporary measures, such as sediment barriers, should be removed when permanent measures are in place; All paved surfaces must be clean; and Storm drain inlet filters must be removed after all cleanup activities have been completed. 	
2. Slope Management and Protection (Category 1B and 2 only)	
Areas disturbed on a slope greater than 15% must be protected when work is inactive for seven (7) days or more.	
	<p>To find the slope, divide the vertical height of your slope by the horizontal length of your slope and multiply by 100. For example, if your slope measures 3 feet vertically, and 10 feet horizontally, your slope would be $3 / 10 \times 100 = 30\%$.</p>
	Check if will be used:
1. Rolled erosion control products	<input type="checkbox"/>
2. Hydraulic mulch or hydroseed	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>
4. Planting and/ or vegetation providing at least 70% surface cover	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Not required for Category 1A projects.</i>	

KEISI AKO 2: HOLISI TA'OFI FO'OU (KALASI 1A)

Appendix B

3. Temporary Stabilization (Category 1B and 2 only)	
Use one or more of the following to protect disturbed areas that will not be worked on within 14 days:	Check if will be used:
1. Rolled erosion control products	<input type="checkbox"/>
2. Hydraulic mulch or hydroseed	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>
4. Planting and/or vegetation providing at least 70% surface cover	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Not required for Category 1A projects.</i>	
II. SEDIMENT CONTROL BMPs: practices to prevent soil and sediment from leaving the project site and entering storm drains during rain events.	
1. Perimeter Controls	
Sediment fences or barriers shall be used at the perimeter of all disturbed areas where there is potential for runoff to flow off the project site, Barriers may include gravel bags, sand bags, fiber rolls, silt fences, compost socks, or an equivalent BMP that intercepts runoff.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
2. Storm Drain Inlet Protection	
Inlet protection is required over storm drains that may receive runoff from your site unless those inlets drain to a sediment basin or trap. Inlet protection should be removed during severe storm events to prevent flooding.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
III. GOOD HOUSEKEEPING BMPs: practices that prevent pollution by limiting or reducing potential pollutants at their source.	
1. BMP and Site Maintenance (REQUIRED)	
Regularly inspect and maintain BMPs to ensure continued performance.	
2. Dust Control	
Use one of the following to control dust:	Check if will be used:
1. Mulching to a depth of one inch or more	<input type="checkbox"/>
2. Sprinkling exposed soils with water to maintain moistness	<input checked="" type="checkbox"/>
3. Vertical dust barriers	<input type="checkbox"/>
	<input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
3. Concrete Waste Management	
Conduct washout off-site or perform onsite in a designated area, away from water bodies, channels, or storm drains. Construct and maintain washout to contain all liquid and concrete waste generated.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
4. Stockpile Management	
Locate stockpiles away from drainage ways or other areas of concentrated flows. Use a barrier around stockpiles and cover if they will not be actively used within seven (7) days.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
5. Vehicle Tracking Control	
Restrict vehicle traffic to properly designated areas and remove sediment from vehicle tires prior to exiting the project site. All sediments that are tracked or discharged off-site must be swept or vacuumed at the end of each day.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	

KEISI AKO 2: HOLISI TA'OFI FO'OU (KALASI 1A)

Appendix B

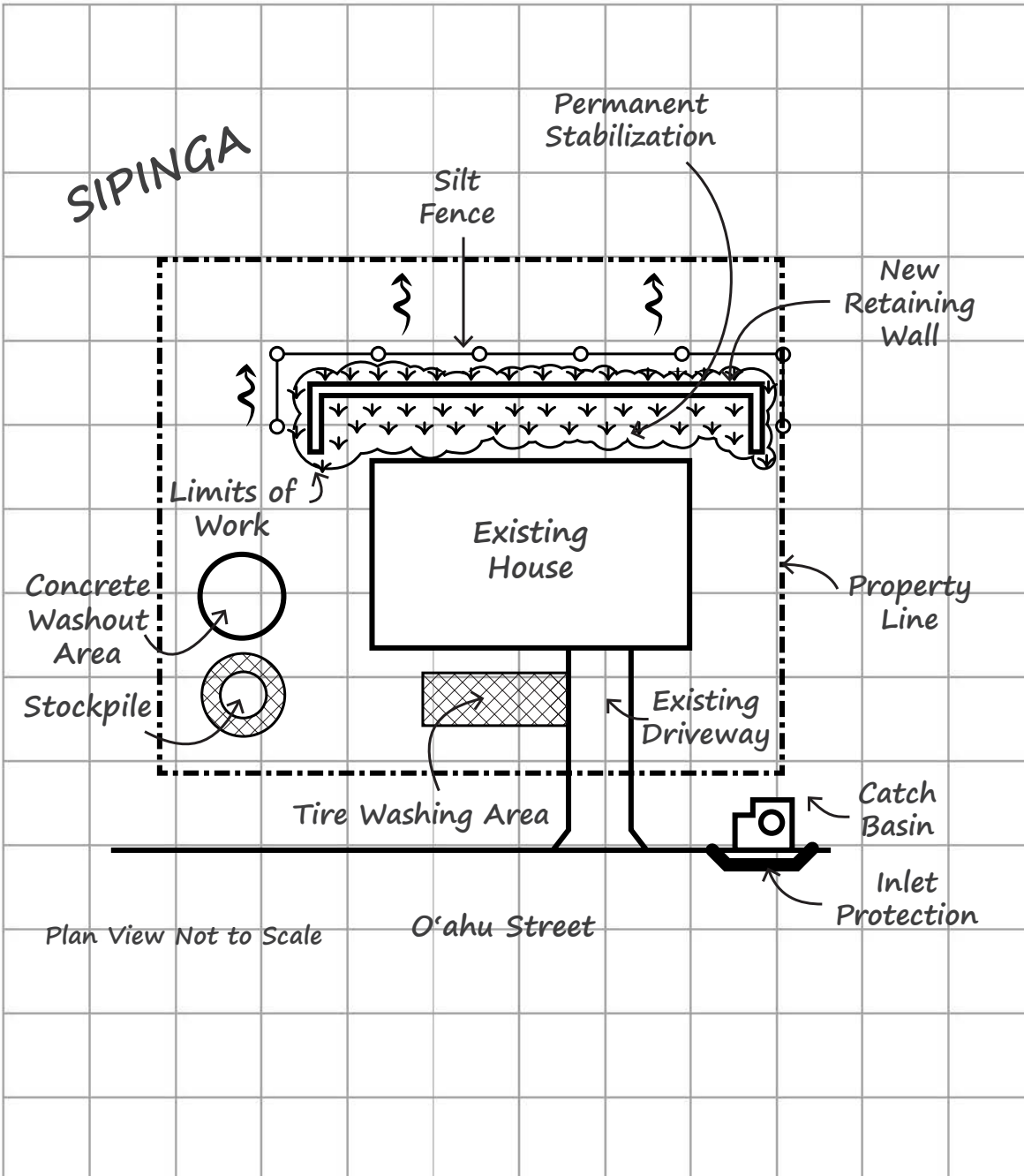
6. Material Delivery, Storage and Use Management	
Minimize the storage of potential pollutants onsite, store materials in a designated area, and install secondary containment. Do not store materials in buffer areas, near areas of concentrated flow, or areas abutting the City storm drainage system, receiving waters, or drainage improvements that discharge off-site.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
7. Spill Prevention and Control	
Keep ample supply of cleanup materials onsite. Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
8. Solid Waste Management	
Provide designated waste collection areas for solid waste or construction and demolition waste, collect trash daily, and dispose at authorized disposal areas.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
9. Portable Toilets (Sanitary/ Septic Waste Management)	
Temporary and portable sanitary and septic waste systems shall be mounted or staked in, well-maintained and scheduled for regular waste disposal and servicing.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not have portable toilets.</i>	
10. Liquid Waste Management BMPs	
Contain liquid wastes in a holding pit, sediment basin, roll-off bin, or portable tank of sufficient volume to contain the liquid wastes generated.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not generate liquid waste.</i>	
11. Vehicle and Equipment Cleaning, Fueling, and Maintenance	
Prevent pollutants in storm water from vehicle and equipment cleaning, fueling and maintenance by using off-site facilities when feasible, performing work in designated areas only, using spill pads under vehicles and equipment, checking for leaks and spills, and containing and cleaning up spills immediately.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
12. Hazardous Waste Management	
Prevent or reduce the discharge of pollutants to storm water from hazardous waste through proper material use and waste disposal.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not generate hazardous waste.</i>	
13. Contaminated Soil Management	
Contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets. Contaminated soil should be disposed of properly in accordance with all applicable regulations.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>No known contamination at site.</i>	

KEISI AKO 2: HOLISI TA'OFI FO'OU (KALASI 1A)

Appendix B

SITE DIAGRAM

Provide a drawing of your site below or attach another map. Include the building outlines, property boundary or fence line, the limits of where your work will be located, flow arrows indicating direction of storm water runoff, location of BMPs, and any storm drains within 50 feet of your property. The drawing does not need to be to scale.



KEISI AKO 2: HOLISI TA'OFI FO'OU (KALASI 1A)

Appendix B

PROJECT SCHEDULE

Use the table below or attach a separate project schedule to this ESCP. Project schedules must establish a sequence of all planned actions and activities on the project site, including, but not limited to, all land disturbing activities, the implementation of the BMPs identified in the project ESCP, scheduled inspections and maintenance of BMPs, and the removal of temporary BMPs. The project schedule shall include specific dates or project milestones i.e. install BMPs – 1 day, clear & grub - 2 days, construction – 2 weeks, stabilize disturbed areas – 1 day, remove BMPs – after vegetation is 90% established.

PROJECT SCHEDULE	
Action	Timeline or Date
Notify the Department of Planning and Permitting of Project Start Date - 768-8132 or dpp.npdes@honolulu.gov	2 weeks before starting work
<i>Install BMPs</i>	<i>1 day</i>
<i>Clear site</i>	<i>1 day</i>
<i>Construct wall</i>	<i>1.5 days</i>
<i>Plant grass</i>	<i>1 day</i>
<i>Remove BMPs after grass is established</i>	<i>1 day</i>

RAIN RESPONSE PLAN

The following will be performed when severe rain is forecast:

- Temporarily suspend land disturbing activities including clearing, grubbing, grading and trenching.
- Inspect all BMPs and maintain as needed.
- Reinstall BMPs that were removed due to active work in the area.
- If a severe storm is expected, remove inlet protection devices to prevent flooding on surrounding streets.
- Cover or relocate material stockpiles and liquid material containers to avoid contact with rainwater.
- Place spill pans or oil-only spill pads under construction vehicles to prevent runoff from contacting any spilled petroleum products. Properly dispose of any accumulated oily water after the rain event.
- Re-inspect project site after the rain event and replace or maintain BMPs as needed.

Other: (please specify)

KEISI AKO 2: HOLISI TA'OFI FO'OU (KALASI 1A)

Appendix B

ESCP CERTIFICATION

Construction Site Project Name: Mr. Smith's New Retaining Wall

Physical Site Address: 1234 O'ahu Street

Building Permit Application Number: 2018-00-0000

- 1) By signing, you acknowledge that erosion prevention, sediment control, and good housekeeping BMPs in this ESCP are mandatory conditions of your building and/or grading permit and are subject to inspection and enforcement by the Department of Planning and Permitting, in accordance with Section 20-3-7 of the Rules Related to Water Quality.
- 2) If the proposed land disturbing work will be performed in the city sidewalk or right-of-way and/or best management practices installed in the sidewalk area (area between the property line and edge of pavement), the owner is responsible for obtaining a Permit for Street Usage from the Department of Transportation Services, 650 S. King Street, 2nd Floor, Honolulu, Hawaii, 96813.
- 3) The owner is responsible for installing appropriate barricades, flashers, and signage for pedestrian and vehicular safety, and removing the inlet protection(s) before a storm event to prevent flooding of the road and after the project site is completely stabilized.

John Smith

Owner / Authorized Agent Name*

(*Provide Letter Designating Authorized Agent Form if different from owner)

John Smith
Signature

4/4/2019

Date

Check this box to designate the person below as the ESCP Coordinator. If this box is checked, Appendix A is not required to submit, unless revising, or adding a new ESCP Coordinator to inspect this project.

Jane Doe

ESCP Coordinator Name

(if different from owner/ authorized agent)

Jane Doe
Signature

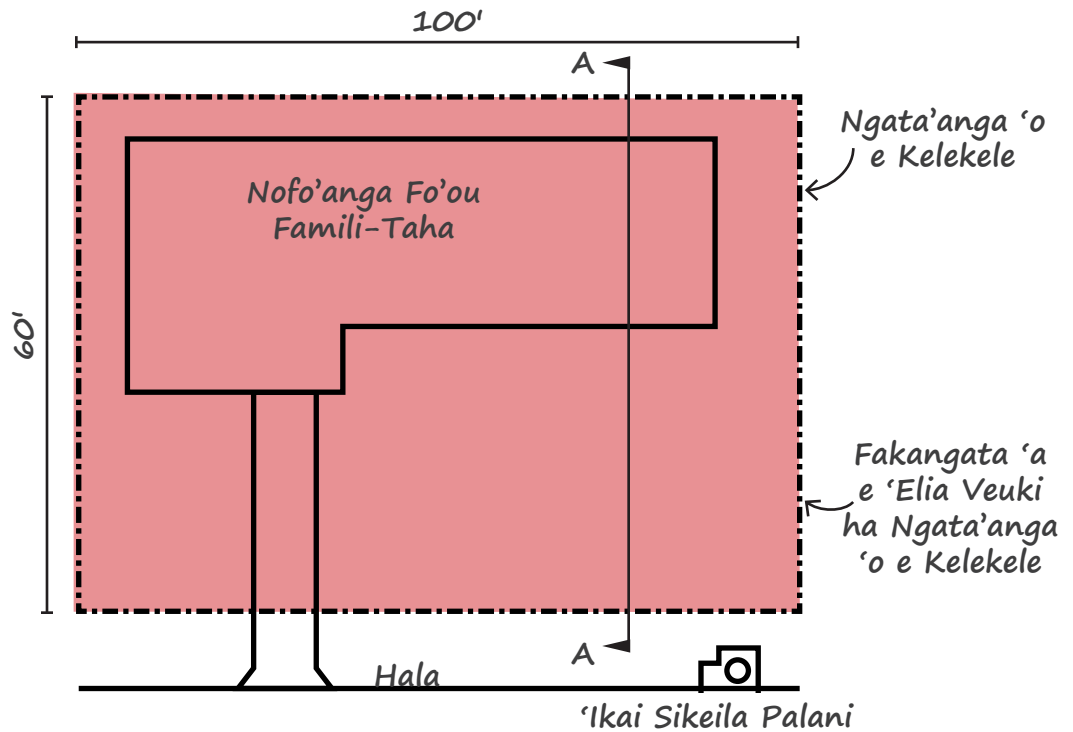
4/4/2019

Date

Certification #: 1111 Phone: 808-2222 Email: jane.doe@email.com

Mailing Address: 5678 Island Way, Honolulu, HI 96855

KEISI AKO 3: 'API NOFO'ANGA FAMILI FO'OU (KALASI 1B)



'ELIA VEUKI

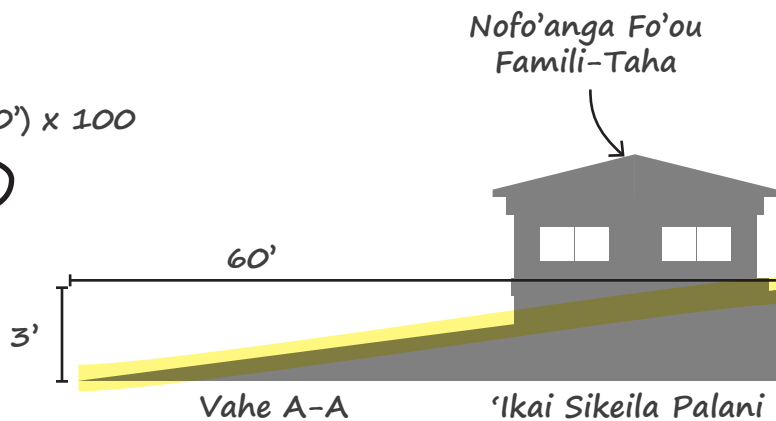
'E veuki katoa 'a e 'elia.

$$\begin{aligned}
 \text{Katoa 'Elia Veuki} &= \text{'Elia Kelekele} \\
 &= 60' \times 100' \\
 &= 6,000 \text{ Sikuea Fute}
 \end{aligned}$$

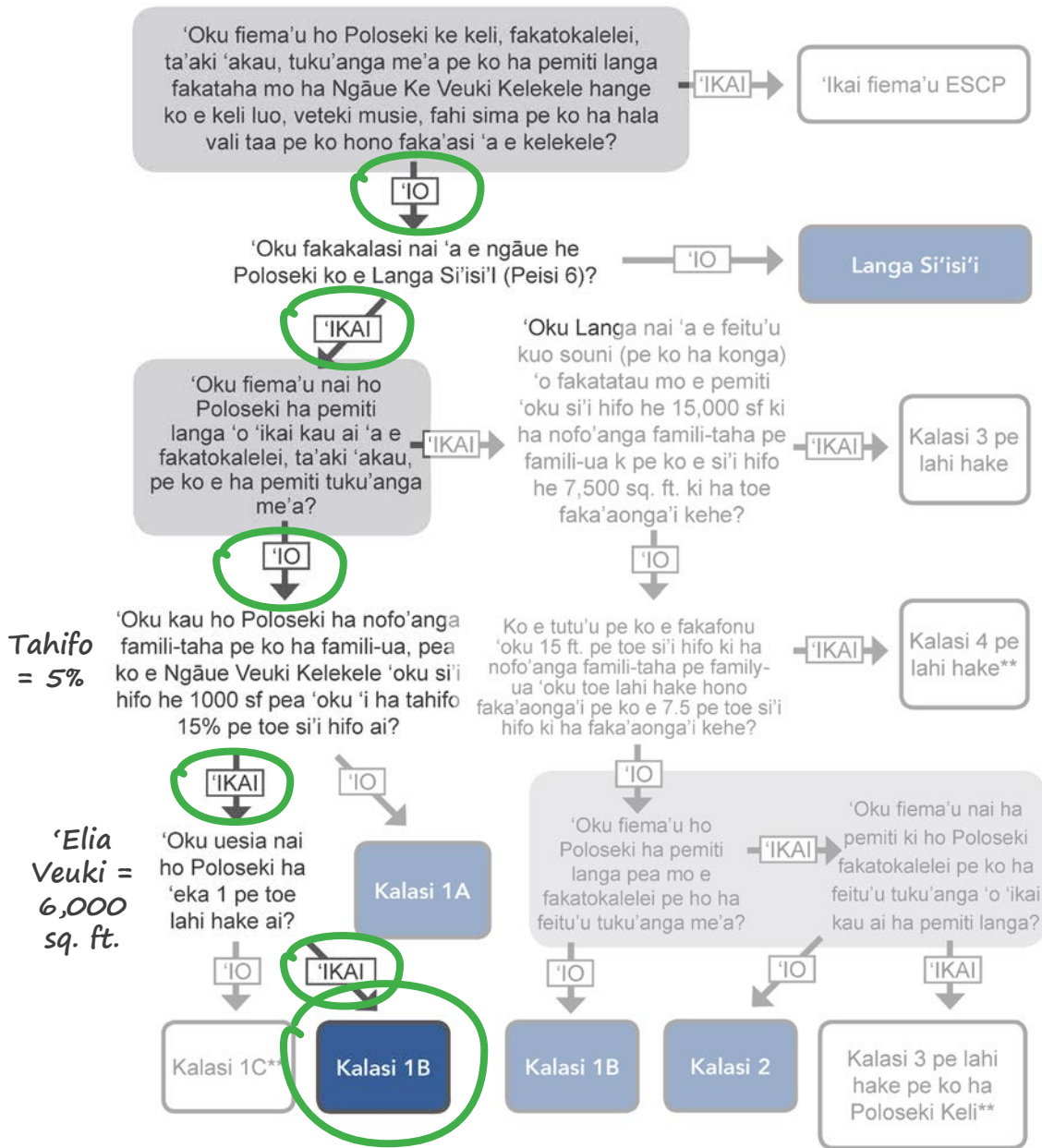
TAHIFO

Liliu ki he ma'olunga 'o e 'elia poloseki 'oku 3' lafalafa loloa 'o e 60'.

$$\begin{aligned}
 \% \text{ Tahifo} &= (3' \div 60') \times 100 \\
 &= 5\%
 \end{aligned}$$



KEISI AKO 3: NOFO'ANGA FO'OU FAMILI-TAHA (KALASI 1B)



FIEMA'U POLOSEKI

- Pemitu langa ki ha nofo'anga fo'ou famili-taha
- Palani Mapule'i Holo pea mo e Toka'anga Kelekele (Kalasi 1B)

KEISI AKO 3: NOFO'ANGA FO'OU FAMILI-TAHA (KALASI 1B)

Appendix B



City and County of Honolulu

Erosion and Sediment Control Plan Small Project Template
for Categories 1A, 1B and 2

Construction Site Project Name: Mr. Smith's New Single-Family Dwelling

Physical Site Address: 1234 O'ahu Street

Building Permit Application Number: 2018-00-0000

Disturbed Area (square-feet)*: 6,000 sq. ft.

*Disturbed area includes the project area, construction access on unpaved surfaces, and storage/ staging area(s).

Instructions:

Use this template to prepare an Erosion and Sediment Control Plan (ESCP) for projects under the City and County of Honolulu, Department of Planning and Permitting (DPP) Categories 1A, 1B, and 2. This ESCP may be prepared and must be signed by the property owner or an authorized agent designated by the owner. Submit a completed ESCP with the building permit application and keep a copy of the approved ESCP on the job site at all times. Any changes to the approved ESCP must be approved by the DPP.

Refer to the guidance booklet "How to Prepare Erosion and Sediment Control Plan for Small Construction Projects" available on DPP's website @ www.honolulu.dpp.org for more information on each BMP below. Select the BMPs which will be used at the site and if not used, provide a brief explanation for why it is not needed or impracticable for the site.

Designate a certified ESCP coordinator for the project by providing the information on page 6 of this template or sending written notice to DPP (the form is available on DPP's website). The ESCP coordinator is responsible for performing inspections before construction starts and at least once every 30 days until permanent stabilization is in place.

I. EROSION PREVENTION BMPs: practices that prevent erosion from occurring.

1. Permanent Stabilization (REQUIRED)

- Prior to closing of any permit(s) permanent stabilization must be in place which includes the following requirements:
- All exposed disturbed areas must be permanently stabilized with ground covering such as vegetation, gravel, or pavers;
 - Rain gutters, downspouts, and channelized flows must be installed and functioning as designed;
 - In seeded areas, grass or vegetation must cover at least 90 percent of the disturbed soils or must be temporary stabilized while it is growing;
 - Temporary measures, such as sediment barriers, should be removed when permanent measures are in place;
 - All paved surfaces must be clean; and
 - Storm drain inlet filters must be removed after all cleanup activities have been completed.

2. Slope Management and Protection (Category 1B and 2 only)

Areas disturbed on a slope greater than 15% must be protected when work is inactive for seven (7) days or more.

To find the slope, divide the vertical height of your slope by the horizontal length of your slope and multiply by 100. For example, if your slope measures 3 feet vertically, and 10 feet horizontally, your slope would be 3 / 10 X 100= 30%.

Check if will be used:

1. Rolled erosion control products	<input type="checkbox"/>
2. Hydraulic mulch or hydroseed	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>
4. Planting and/ or vegetation providing at least 70% surface cover	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>
<input checked="" type="checkbox"/> Will Not Use	

If this BMP will not be used, provide brief explanation:
Slopes are less than 15%.

KEISI AKO 3: NOFO'ANGA FO'OU FAMILI-TAHA (KALASI 1B)

Appendix B

3. Temporary Stabilization (Category 1B and 2 only)	
Use one or more of the following to protect disturbed areas that will not be worked on within 14 days: Check if will be used:	
1. Rolled erosion control products	<input type="checkbox"/>
2. Hydraulic mulch or hydroseed	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>
4. Planting and/or vegetation providing at least 70% surface cover	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Do not anticipate delays of 14 days or more.</i>	
II. SEDIMENT CONTROL BMPs: practices to prevent soil and sediment from leaving the project site and entering storm drains during rain events.	
1. Perimeter Controls	
Sediment fences or barriers shall be used at the perimeter of all disturbed areas where there is potential for runoff to flow off the project site, Barriers may include gravel bags, sand bags, fiber rolls, silt fences, compost socks, or an equivalent BMP that intercepts runoff.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
2. Storm Drain Inlet Protection	
Inlet protection is required over storm drains that may receive runoff from your site unless those inlets drain to a sediment basin or trap. Inlet protection should be removed during severe storm events to prevent flooding.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
III. GOOD HOUSEKEEPING BMPs: practices that prevent pollution by limiting or reducing potential pollutants at their source.	
1. BMP and Site Maintenance (REQUIRED)	
Regularly inspect and maintain BMPs to ensure continued performance.	
2. Dust Control	
Use one of the following to control dust: Check if will be used:	
1. Mulching to a depth of one inch or more	<input type="checkbox"/>
2. Sprinkling exposed soils with water to maintain moistness	<input checked="" type="checkbox"/>
3. Vertical dust barriers	<input type="checkbox"/>
	<input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
3. Concrete Waste Management	
Conduct washout off-site or perform onsite in a designated area, away from water bodies, channels, or storm drains. Construct and maintain washout to contain all liquid and concrete waste generated.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
4. Stockpile Management	
Locate stockpiles away from drainage ways or other areas of concentrated flows. Use a barrier around stockpiles and cover if they will not be actively used within seven (7) days.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
5. Vehicle Tracking Control	
Restrict vehicle traffic to properly designated areas and remove sediment from vehicle tires prior to exiting the project site. All sediments that are tracked or discharged off-site must be swept or vacuumed at the end of each day.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	

KEISI AKO 3: NOFO'ANGA FO'OU FAMILI-TAHA (KALASI 1B)

Appendix B

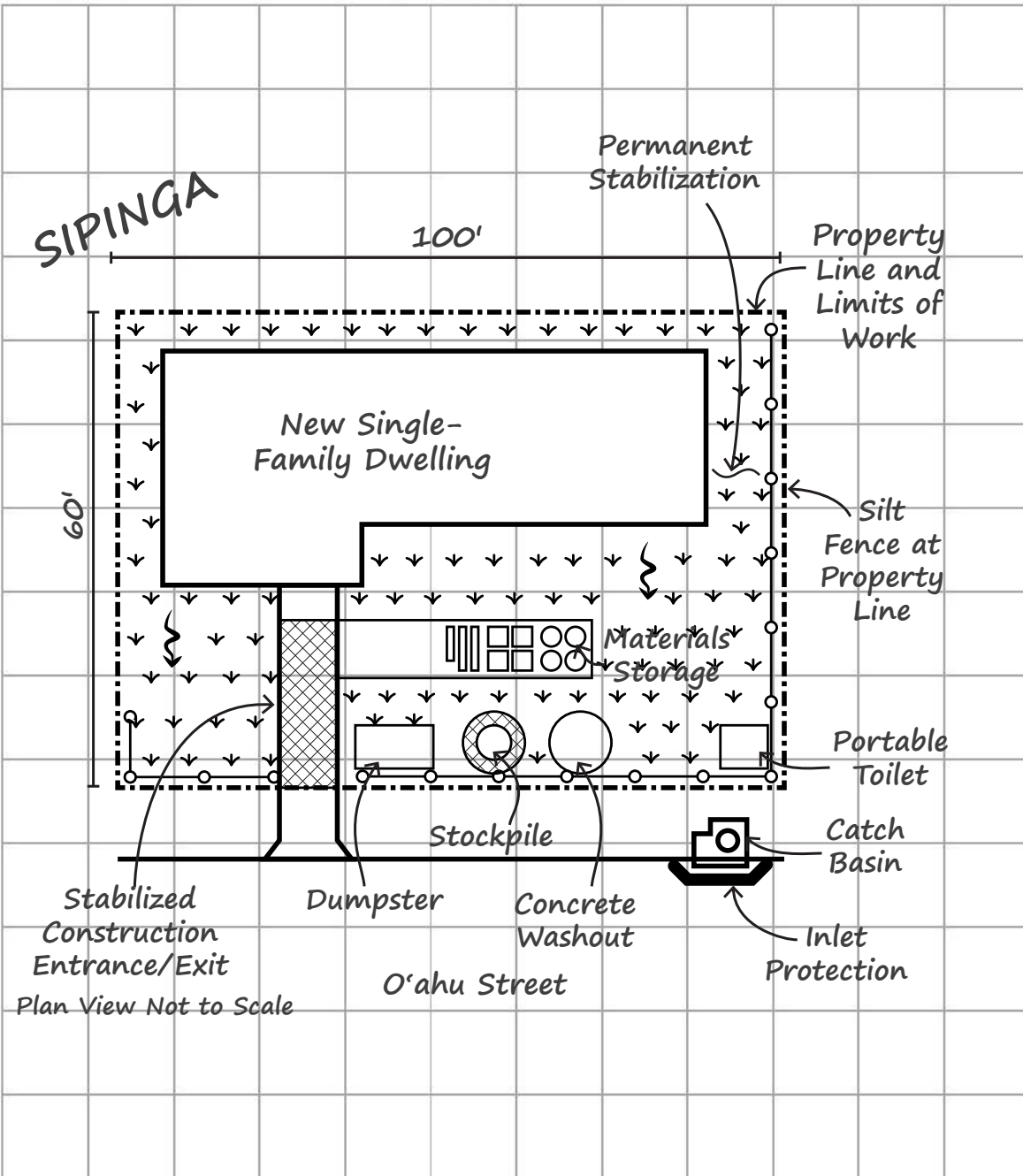
6. Material Delivery, Storage and Use Management	
Minimize the storage of potential pollutants onsite, store materials in a designated area, and install secondary containment. Do not store materials in buffer areas, near areas of concentrated flow, or areas abutting the City storm drainage system, receiving waters, or drainage improvements that discharge off-site.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
7. Spill Prevention and Control	
Keep ample supply of cleanup materials onsite. Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
8. Solid Waste Management	
Provide designated waste collection areas for solid waste or construction and demolition waste, collect trash daily, and dispose at authorized disposal areas.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
9. Portable Toilets (Sanitary/ Septic Waste Management)	
Temporary and portable sanitary and septic waste systems shall be mounted or staked in, well-maintained and scheduled for regular waste disposal and servicing.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
10. Liquid Waste Management BMPs	
Contain liquid wastes in a holding pit, sediment basin, roll-off bin, or portable tank of sufficient volume to contain the liquid wastes generated.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not generate liquid waste.</i>	
11. Vehicle and Equipment Cleaning, Fueling, and Maintenance	
Prevent pollutants in storm water from vehicle and equipment cleaning, fueling and maintenance by using off-site facilities when feasible, performing work in designated areas only, using spill pads under vehicles and equipment, checking for leaks and spills, and containing and cleaning up spills immediately.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
12. Hazardous Waste Management	
Prevent or reduce the discharge of pollutants to storm water from hazardous waste through proper material use and waste disposal.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
13. Contaminated Soil Management	
Contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets. Contaminated soil should be disposed of properly in accordance with all applicable regulations.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>No known contamination on site.</i>	

KEISI AKO 3: NOFO'ANGA FO'OU FAMILI-TAHA (KALASI 1B)

Appendix B

SITE DIAGRAM

Provide a drawing of your site below or attach another map. Include the building outlines, property boundary or fence line, the limits of where your work will be located, flow arrows indicating direction of storm water runoff, location of BMPs, and any storm drains within 50 feet of your property. The drawing does not need to be to scale.



KEISI AKO 3: NOFO'ANGA FO'OU FAMILI-TAHA (KALASI 1B)

Appendix B

PROJECT SCHEDULE

Use the table below or attach a separate project schedule to this ESCP. Project schedules must establish a sequence of all planned actions and activities on the project site, including, but not limited to, all land disturbing activities, the implementation of the BMPs identified in the project ESCP, scheduled inspections and maintenance of BMPs, and the removal of temporary BMPs. The project schedule shall include specific dates or project milestones i.e. install BMPs – 1 day, clear & grub - 2 days, construction – 2 weeks, stabilize disturbed areas – 1 day, remove BMPs – after vegetation is 90% established.

PROJECT SCHEDULE	
Action	Timeline or Date
Notify the Department of Planning and Permitting of Project Start Date - 768-8132 or dpp.npdes@honolulu.gov	2 weeks before starting work
<i>Install BMPs</i>	<i>1 day</i>
<i>Clear site</i>	<i>3 day</i>
<i>Construct house</i>	<i>4 months</i>
<i>Plant grass and landscaping</i>	<i>2 weeks</i>
<i>Remove BMPs after grass and landscaping is established</i>	<i>1 day</i>

RAIN RESPONSE PLAN

The following will be performed when severe rain is forecast:
<ul style="list-style-type: none"> Temporarily suspend land disturbing activities including clearing, grubbing, grading and trenching. Inspect all BMPs and maintain as needed. Reinstall BMPs that were removed due to active work in the area. If a severe storm is expected, remove inlet protection devices to prevent flooding on surrounding streets. Cover or relocate material stockpiles and liquid material containers to avoid contact with rainwater. Place spill pans or oil-only spill pads under construction vehicles to prevent runoff from contacting any spilled petroleum products. Properly dispose of any accumulated oily water after the rain event. Re-inspect project site after the rain event and replace or maintain BMPs as needed.
Other: (please specify)

KEISI AKO 3: NOFO'ANGA FO'OU FAMILI-TAHA (KALASI 1B)

Appendix B

ESCP CERTIFICATION

Construction Site Project Name: Mr. Smith's New Single-Family Dwelling
Physical Site Address: 1234 O'ahu Street
Building Permit Application Number: 2018-00-0000

- 1) By signing, you acknowledge that erosion prevention, sediment control, and good housekeeping BMPs in this ESCP are mandatory conditions of your building and/or grading permit and are subject to inspection and enforcement by the Department of Planning and Permitting, in accordance with Section 20-3-7 of the Rules Related to Water Quality.
- 2) If the proposed land disturbing work will be performed in the city sidewalk or right-of-way and/or best management practices installed in the sidewalk area (area between the property line and edge of pavement), the owner is responsible for obtaining a Permit for Street Usage from the Department of Transportation Services, 650 S. King Street, 2nd Floor, Honolulu, Hawaii, 96813.
- 3) The owner is responsible for installing appropriate barricades, flashers, and signage for pedestrian and vehicular safety, and removing the inlet protection(s) before a storm event to prevent flooding of the road and after the project site is completely stabilized.

John Smith

Owner / Authorized Agent Name*

(*Provide Letter Designating Authorized Agent Form if different from owner)

Check this box to designate the person below as the ESCP Coordinator. If this box is checked, Appendix A is not required to submit, unless revising, or adding a new ESCP Coordinator to inspect this project.

John Smith
Signature

4/4/2019

Date

Jane Doe

ESCP Coordinator Name

(if different from owner/ authorized agent)

Jane Doe
Signature

4/4/2019

Date

Certification #: 1111 Phone: 808-2222 Email: jane.doe@email.com

Mailing Address: 5678 Island Way, Honolulu, HI 96855

SIPINGA FOOMU ‘INISIPEKITA

Appendix C

City and County of Honolulu



SIPINGA

Construction Site BMPs Inspection Checklist For CCH Category 1A, 1B, 2, 3, and 4 and Trenching Projects

General Information		
Project Name:	Mr. Smith's New Single-Family Dwelling	
ESCP Coordinator:	Ms. Jane Doe	
Location:	1234 O'ahu Street	
Owner/Authorized Agent:	John Smith	
Contractor:	Konituleki ABC	
1. City Permit (check all that apply)	Building #: BP#12345 Exp. Date: 08/16/2019 Grubbing #: <input type="checkbox"/> Grubbing #: <input type="checkbox"/> Trenching #: <input type="checkbox"/> Trenching #: <input type="checkbox"/>	
2. Other Permits (list all):		
Inspection Type		
<input type="checkbox"/> Pre-construction inspection	<input type="checkbox"/> Regular Monthly Inspection (Category 1A, 1B, 2)	
<input checked="" type="checkbox"/> Regular Monthly Inspection (Category 1A, 1B, 2)	<input type="checkbox"/> Regular Weekly Inspection (Category 3, 4, Trenching)	
<input type="checkbox"/> Re-inspection	<input type="checkbox"/> Re-inspection	
Project Phase (check all that apply)		
<input type="checkbox"/> Mobilization / Demolition	<input type="checkbox"/> Grubbing / Clearing	
<input checked="" type="checkbox"/> Building Construction	<input type="checkbox"/> Final Grading	
	<input checked="" type="checkbox"/> Infrastructure / Utilities	
Records Review (If "No" is checked for any of the following columns, complete Deficiencies / Corrective Action Report on page 3.)		
Pre-Construction Inspection	Available at Site	Complete, Signed, and Current
Weekly or Monthly Construction Inspections	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Erosion and Sediment Control Plan (ESCP)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

SIPINGA FOOMU 'INISIPEKITA

Appendix C

Construction BMP Inspection Results (Mark the BMPs that are required per Plan for each column)

Construction BMP	Erosion Prevention		Sediment Control		Good Housekeeping	
	Installed / Maintained	Number of Deficiencies	Installed / Maintained	Number of Deficiencies	Installed / Maintained	Number of Deficiencies
<input checked="" type="checkbox"/> Project Planning and Design	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> N <input type="checkbox"/> 2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> N <input type="checkbox"/> 4
<input checked="" type="checkbox"/> Project Scheduling	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> N <input type="checkbox"/> 1	<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Slope Management and Protection	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> 1	<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> N <input type="checkbox"/> 2
<input checked="" type="checkbox"/> Temporary Stabilization	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> N <input type="checkbox"/> 1
<input checked="" type="checkbox"/> Permanent Stabilization	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Diversion BMPs to divert runoff from upstream areas around disturbed areas	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> N <input type="checkbox"/> 2
<input type="checkbox"/> Velocity Dissipation Devices	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Other:	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Inlet and Storm Drain Protection	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
<input checked="" type="checkbox"/> Perimeter Control	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Other:	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> BMP and Site Maintenance	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
<input type="checkbox"/> Dust Control	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Material Delivery, Storage, and Use BMPs	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N <input type="checkbox"/> 2
<input checked="" type="checkbox"/> Stockpiling Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> N <input type="checkbox"/> 1
<input checked="" type="checkbox"/> Spill Prevention and Control	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Solid Waste Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> N <input type="checkbox"/> 2
<input type="checkbox"/> Hazardous Waste Management	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Contaminated Soil Management	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Concrete Waste Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Sanitary / Septic Waste Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Liquid Waste Management	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Vehicle & Equipment Cleaning	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Vehicle & Equipment Fueling	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Vehicle & Equipment Maintenance	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Vehicle Tracking Control	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> N <input type="checkbox"/> 2
<input checked="" type="checkbox"/> Stabilized Construction Entrance and Exit	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> N <input type="checkbox"/> 2
<input type="checkbox"/> Dewatering Operations BMPs.	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Other:	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	

SIPINGA

SIPINGA FOOMU 'INISPEKITA

Appendix C

Deficiencies / Corrective Action Reports (attach additional pages as needed)

Photo # 1



Taken By: **Jane Doe** Date: **4/4/2019**
 Description: **1234 O'ahu Street**

Comments:
 Sediment tracking onto roadway. Recommend sweeping road to remove any dirt tracked and installing entrance protection with gravel or other means to prevent tracking. Recommend installing perimeter and slope protection BMP's.

Status: **Completed** Priority: **High**

Corrected by (initials) **JD** Date: **4/4/2019**

Comments:
 Swept roadway and installed biosock along perimeter. Placed down 6" layer of gravel with blanket filter fabric lining underneath at entrance.

Rev. 7/30/2018

Photo # 2



Taken By: **Jane Doe** Date: **4/4/2019**
 Description: **1234 O'ahu Street**

Comments:
 Illegal unprotected stockpile stored on sidewalk. Recommend moving stockpile onto property and protecting with perimeter control and possibly covering material.

Status: **Completed** Priority: **High**

Corrected by (initials) **JD** Date: **4/4/2019**

Comments:
 Swept roadway and moved stockpile onto property. Installed biosock around stockpile and covered with tarp.

Page 4 of 4

SIPINGA FOOMU 'INISIPEKITA

SIPINGA

Appendix C

Deficiencies / Corrective Action Reports (attach additional pages as needed)

Photo # 1



Taken By: **Jane Doe** Date: **4/4/2019**
 Description: **New single-family dwelling at 1234 O'ahu Street**

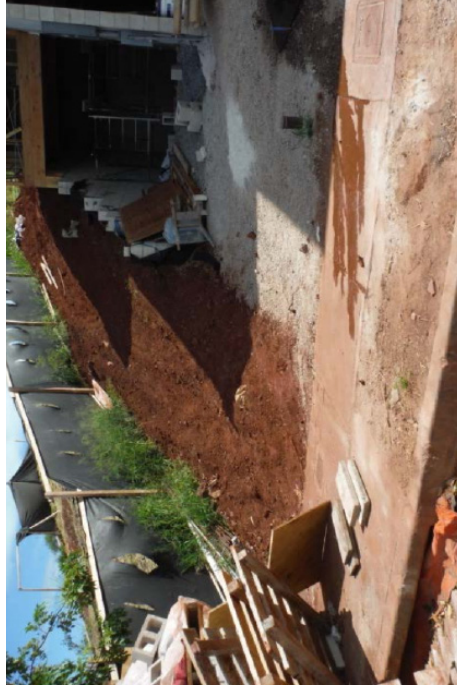
Comments: **Lack of perimeter control BMPs and evidence of sediment discharge onto roadway. Recommend installing sediment control BMPs at perimeter and protecting exposed soil. Sweep and remove soil residue off road. Remove construction materials and store properly.**

Status: **Completed** Priority: **High**

Corrected by (initials) **JD** Date: **4/4/2019**

Comments: **Swept roadway and installed biosock and silt fence at perimeter. Removed construction materials and disposed properly.**

Photo # 2



Taken By: **Jane Doe** Date: **4/4/2019**
 Description: **New single-family dwelling at 1234 O'ahu Street**

Comments: **No slope protection and lack of BMPs at perimeter, signs of sediment discharge onto sidewalk. Recommend protecting slope with matting and install sediment control BMPs at perimeter. Sweep and remove soil off sidewalk. Remove construction materials off sidewalk and store properly. Clean inlet.**

Status: **Completed** Priority: **High**

Corrected by (initials) **JD** Date: **4/4/2019**

Comments: **Swept sidewalk and cleaned inlet of debris and sediment. In stalled silt fence at the bottom of slope and placed matting over slope. Removed construction materials and disposed properly.**

POTUNGĀUE 'O E PALANI PEA MO E PEMITI

Ngaahi Fehu'i Fekau'aki Pemiti 768-8230
Langa Tafe'anga Vai

Ngaahi Fehu'i Fekau'aki Pemiti 768-8216 or
Langa Tafe'anga Vai 768-8217

FAKAMATALA HE 'INITANETI PEA MO E TOKONI TULEININGI

Tuleiningi Setifikeiti Pule Palani Mapule'i Holo pea mo e Toka'anga Kelekele: q-r.to/DPP-SWQ



Foomu/Foomu Komipiuta:
www.honoluludpp.org/ApplicationsForms/StormwaterQuality.aspx

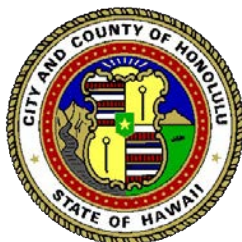
PALE KI HE HELO 'ATAKAI PEA MO HA KAUNGA'API

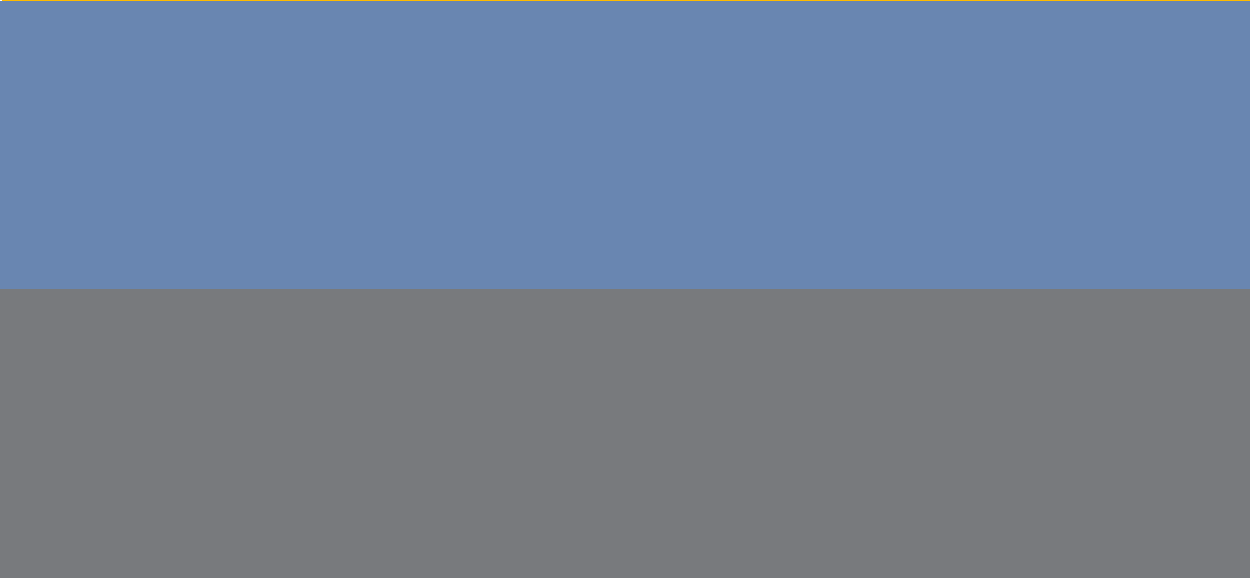
'I he ta'u e ua kotoa pe 'oku ha nga he Kolo pea mo e Vahenga 'o Honolulu pea mo e Potungāue Tauhi 'Api, Va'a Tafe'anga Lelei Vai 'o nau foaki ha pale 'e taha ki he konituleki langa ki he Pale ki he Helo 'Atakai pea mo e taha ki he kautaha langa ko e Pale Kaunga'api Lelei.

'E filii he Kolo 'a e foaki pale makatu'unga he 'inisipekita 'o e feitu'u 'oku 'i ai ha pisinisi 'oku feinga lelei ke muimui 'enau poloseki ki he lao 'o e tafe'anga vai.

Ko e ngaahi pisinisi kimu'a na'e matamata lelei 'enau tauhi 'o 'enau poloseki, ki he kaunga'api kotoa 'aki 'enau fokotu'u ha sisitema ke ta'ofi ha tafenoa e vai, pea fakahoko ha tuleiningi lahi ki he kau ngāue pea ta'ofi mo ha 'uli 'e hu ki tu'a.

Ko e ngaahi pisinisi ne fakapale'i 'oku 'iloa kinautolu he ngaahi tu'uaki pea na'e fakaafe'i ki ha ouau ne fakamalo ai 'a e 'ofisi 'o e Mayor kiate kinautolu.





BE AN EVERYDAY
CLEAN WATER

