From: Amy Peterson <amygeneesmith@gmail.com>

Sent: Thursday, April 11, 2019 8:40 PM

To: EDB Committee

Subject: Kula Park Playground

Dear EDB Committee Members,

As a Kula resident and a parent of young children, I would like to extend my sincere gratitude for your time and consideration for a Kula Park playground structure. Our community is far removed from any town or city center, making a simple trip to a children's park a considerable undertaking. The play structure in Keokea is not convenient for many Kula residents, and is also inadequate for children over the age of 5. The park in Pukalani is often overcrowded, and still not conveniently located.

Kula Park would be an ideal setting for a playground structure, and also a convenient gathering spot for our Kula Ohana.

Mahalo for your time and consideration!

Sincerely, Amy Peterson

From:

Ben Hostetler <mr.hostetler@kalama.k12.hi.us>

Sent:

Thursday, April 11, 2019 4:42 PM

To:

EDB Committee

Subject:

Kalama Intermediate STEMwork AFTERschool Program

Aloha,

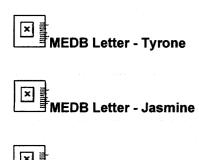
My name is Ben Hostetler. I am a 7th grade science teacher and STEMworks AFTERschool facilitator at Kalama Intermediate School. In lieu of being able to attend the testimony hearing I wanted to send a quick note to talk briefly about the STEM program here at Kalama and why I believe that it is important.

I am currently facilitating the STEM agriculture class. For me it has been a wonderful experience to get to connect with the students outside of the classroom setting and also to have an opportunity to expose the kids to potential career options in agriculture. Before becoming a teacher, I was a farmer, and I firmly believe that local agriculture is immensely important to the future success of our community and our economy. By exposing the students to agriculture I believe that I am not only doing them a service, but out community as well. It has been wonderful to get to see the kids learn about growing plants and for them to feel empowered to be able to grow their own food or to pursue careers in agriculture.

With your continued support, I hope to be able to continue in my role as the agriculture class facilitator for many years to come. I know that we will be able to continue to grow the program and I have plans in the next few years to integrate more engineering and design work into the class. I am hoping that next year the kids will be able to design and build irrigation systems, a plant nursery and a trellis system for growing lilikoi.

I have also attached letters written by a few students in the class who would like to share what they have gotten out of the program.

Mahalo for your support,





MEDB Letter - Shyla





Benjamin Hostetler 7th Grade - Life Science Kalama Intermediate School

My name is Tyrone Momoa. In STEM Ag class I learned how to build a trellis that would stand up. I also learned how for plant beans and corn. This is important because it's pretty cool to do and it can provide me with food that I can share with my family. I want to continue doing STEM next year because it's fun and I've made a lot of friends and has taught me a lot of important skills that I can use in life.

Mahalo, Tyrone Momoa

This year in Stem I have learned how to properly take care your garden. Like, you need to weed your garden every once in a while unless you'd like to come back to a plant graveyard. Also of course you need to water them, and make sure they have enough sun. You need to make sure people don't step on them as well, and don't over water them. Stem is important to me, and I'd like it to continue on so I can participate next year. As time went on Stem has allowed me to form new friendships, and extend my knowledge on gardening. I would really appreciate it if you'd continue funding our Stem program so my friends, and I can participate next year.

- Jasmine Amano

I learned how to plant plants and make new friends. I like stem alot and I would want to continue because its fun.

Shyla Mau

In stem agriculture I learned alot about planting. I learned about the best times for a plant to grow, I learned about plant germination and problems that plants may have during transplantation. This is important because it this class teaches us about planting and raising plants, it is important because we learn to grow food. I plan on being in the stem program and the money that you fund to support this program is great. The money allows us to do more things in the program.

From Jesus Hernandez

Please don't cut the funding for this program. I enjoy STEM alot. It's like an escape for me and a few other people I know. It helps us learn in a really fun way, we get to hangout and cruise while we're learning at the same time. We learned how to plant, and where\when to plant,how much water or sunlight it needs and etc. These are important to know cause one day maybe all the boats that provide us with food goes down, so we can provide for ourselves.

Mahalo, Kamalani Na'eole To whom may concern,
I learned how lot of things in STEM Ag class
this year. Things like plating and making
Friends and I like STEM a lot and I would
like to continue STEM next year.

- Blaine Amaral

From:

Alice L. Lee

Sent:

Thursday, April 11, 2019 3:35 PM

To:

EDB Committee

Subject:

FW: Maui County Property Tax Increase

Forwarding Testimony I received regarding Property Taxes.

Mahalo, Alice

From: Chris Yarish <chrisyarish@hotmail.com>

Sent: Tuesday, April 9, 2019 8:52 AM

To: Alice L. Lee <Alice.Lee@mauicounty.us> **Subject:** Maui County Property Tax Increase

Aloha Ms. Alice Lee

Regarding the proposal to increase property tax rates on Maui-based vacation rentals, I'd like to thank you in advance for taking the time to read my email.

I am writing to urge you to object to the proposed property tax rate increase on transient vacation rentals.

As you may already know, properties falling under the Short Term Rental Property tax classification (at the current tax rate) collectively pay \$80 million in property tax per annum - more than all the residents of Maui collectively, and more than all commercial properties and hotels combined.

Such a dramatic tax increase will not only discourage future investment in legal vacation properties (which has proven to be exceptionally profitable for the County), it could negate any of the forward momentum the county has had in cracking down on illegal vacation rental properties. The move could:

^{*}drive some legal owners to reclassify and rent 'off the books'.

^{*}deter illegal rental owners from moving toward legalization.

^{*}cause some who by choice rent infrequently to cover basic costs to pull their listing to save money, thus causing the county to lose out on both the transient accommodations taxes and the higher vacation rental property classification tax dollars.

- *lead to an overall nightly rate increase on transient rentals, leaving fewer tourist dollars to be spent elsewhere, and therefore harming local businesses.
- *Cause some owners to sell their transient rental property, which may end up in the hands of those maintaining the property as a second home under the residential designation.
- *put some marginal homeowners into a position of default, thereby leading to additional policing for the recovery of non-payment of taxes.

I understand that there are sound justifications for small and incremental increases to various tax rates - the 1% increase to the Transient Accommodations Tax being the most recent example - but to implement a nearly 70% increase seems punitive, disproportionate, and unfair. The Maui County Comprehensive Annual Financial Report (2018 FY CAFR) noted that:

- visitor arrivals are increasing (up 4.1% since 2016)
- visitor dollars spent per day have risen (up 3.4%, to \$212 per visitor per day in 2017)
- hotel occupancy and room rates increased and remained the highest in the state (\$353/night and 77.1%, respectively)
- commercial building authorizations are up \$92.8 million or 24.1 percent
- For 2018, 4272 additional new construction units are planned for all categories (778 Timeshare, 217 Condo, 150 Hotel/Condo, 626 Hotel, 125 Bed and Breakfast, 207 Short-term Rentals, 12 Transient Vacation Rentals, 699 Mixed Use, and 308 Mixed Use/Hotel
- preliminary figures show that in 2018, residential construction authorizations grew in the first two quarters by more than \$48 million or 17.8% over the same period in 2017.

The conclusion of the report addressed real property taxes, stating the following:

"The real property tax base for fiscal year 2019 of \$48.8 billion is an increase of \$2.9 billion or 6.3% from the fiscal year 2018. The real property tax rates (per \$1,000 assessed valuation) for fiscal year 2019 slightly decreased for all classifications except for Hotel & Resort, and the addition of a Short-Term Rental classification. The following were the decreases in each category: Residential from \$5.54 to \$5.52, Apartment from \$6.32 to \$6.31, Commercial from \$7.28 to \$7.25, Industrial from \$7.49 to \$7.45, Agricultural from \$6.01 to \$6.00, Conservation from \$6.37 to \$6.35, Homeowner from \$2.86 to \$2.85, Time share from \$15.43 to \$15.41, Commercial Residential from \$4.56 to \$4.55, Hotel and Resort remain the same rate at \$9.37 and the addition of a Short-Term Rental set for \$9.28. The budgeted real property tax levy of \$321.5 million for fiscal year 2019 is an increase of \$18.3 million or 6.0% from fiscal year 2018, largely as a result of the higher tax rates."

https://www.mauicounty.gov/DocumentCenter/View/115510/FY2018-CAFR-FINAL?bidId&fbclid=IwAR1bGia5SSfv1k3Akl1QHxWR63XWUjTcv0tc1Mj44qpsrtlbYJgOZpIGPg0

In spite of decreases being provided to residential, apartment, commercial, industrial, agricultural, conservation, homeowner timeshare, commercial residential designations, Maui County still realizes a 6% / \$18.3M increase over FY 2018.

With this in mind, it again seems punitive and unfair to single out one of the highest taxed classifications and consider taxing it even more.

Regards,

Chris Yarish

Canadian resident

Oowner/operator of a legal vacation rental property on Maui.

From: djp <davidjamespeterson@gmail.com>

Sent: Thursday, April 11, 2019 8:41 PM

To: EDB Committee **Subject:** Kula Park Playground

Dear EDB Committee Members,

My wife and I have lived in Kula for 8 years, and we now have two daughters, ages 6 and 4. We had been part of a Sunday playgroup at Keokea Park since our first daughter was born, though now our group has disbanded. The current renovations of that playground, coupled with my daughters' ages (Keokea Park is appropriate for children under 5 years old), have left us without our Kula parent/child community. We sometimes use the Kula Elementary School playground, despite the No Trespassing signs and my own reservations considering the school's liability. Kula Park would be an ideal setting for a playground, and also a convenient gathering spot for our Kula Ohana. Please consider a playground at that location for children older than 5 years.

Mahalo for your time and consideration!

Sincerely, Dr. David Peterson

From:

Greg LaGoy < glagoy@hospicemaui.org>

Sent:

Thursday, April 11, 2019 8:57 AM

To:

EDB Committee

Subject:

EDB-1 Support for Maui Economic Development Board

Attachments:

04 MEDB Testimony.docx

Please see attached letter.

R. Gregory LaGoy, BS, ND, MBA Chief Executive Officer Hospice Maui, Inc. glagoy@hospicemaui.org 808-244-5555

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April 11, 2019

Budget and Finance Committee Maui County Council 200 S. High Street Wailuku, HI 96793

Re: EDB-1 Support for Maui Economic Development Board

Aloha Committee Members.

The Maui Economic Development Board has convened The Maui County Health Care Partnership, and facilitates a series of quarterly meetings of healthcare leaders and providers from around Maui County. It is MEDB's commitment to facilitating this process that has allowed collaboration on important healthcare issues that affect us all.

An example of such an issue is the recruitment and retention of healthcare workers, which is a substantial problem that we face. It was MEDB's unique ability to bring together Maui County's healthcare leaders with leaders in education that brought about the creation of programs that have improved the outlook for all of us on this very important issue in a way that could not have otherwise occurred.

I strongly support County funding for MEDB, as it serves a very important role that is outside of the role of any single business entity, and serves a common good for all of Maui County.

Sincerely,

Gregory LaGoy, Chief Executive Officer

llima Smallwood <ilimasmallwood@gmail.com> From:

Thursday, April 11, 2019 9:36 AM Sent:

EDB Committee To:

Subject: Kula park playground

To whom it may concern,

I am writing to add my strong support to the request for a playground at the kula park (behind the fire station). When my daughter was little there was a very small swing set that we visited frequently. We would REALLY love to go there and utilize this park more if there was a playground there. There is really nothing in Kula for our Keiki that is not privately owned and we're quite far removed from most other towns and parks. The elementary school park is great but it is not available to the public very much and also quite far from parking making it challenging for many to access. I'm guessing there are also liability issues for the public to be using this playground.

This park is so needed by our growing kula community. Keokea is a great little park for kids under 5 but it is really small for the number of children who often want to use it and it is quite a drive for those of us that live more central in kula.

Having parks where children can plan and make friendships makes for a stronger community and also helps us adults & parents to make new friendships and create a stronger web of community where we live as well. Some of our closest family friends are people we met at playgrounds, sadly they all live in other parts of the island as there are no playgrounds in Kula.

As for the specifics of the park I'd like to request that it have elements for both young children (2-6) as well as older children (6-12) as there is a need for both and they have much different abilities and interests in the varying age groups.

Thank you for helping to see that this park be enhanced with a playground for our Keiki and our community.

Mahalo,

'Ilima Smallwood

ITSSA I.T.S. Sustainable Architecture 808-264-7040

From:

Jason Economou <jason@ramaui.com>

Sent:

Thursday, April 11, 2019 4:20 PM

To:

EDB Committee

Subject:

Testimony Regarding Proposed Fiscal Year 2020 Budget for the County of Maui

Attachments:

GAD Testimony Regarding Budget 4.11.19.docx

Aloha,

I am writing to submit the attached testimony on behalf of the REALTORS Association of Maui. Please feel free to contact me if you have any questions or desire any additional information.

Mahalo, Jason

Jason A. Economou Government Affairs Director Realtors Association of Maui

441 Ala Makani Place Kahului, HI 96732

Office: (808) 243-8585 Mobile: (808) 308-9015



Jason A. Economou Government Affairs Director

441 Ala Makani PI • Kahului, HI 96732 phone 808-243-8585 • fax 808-873-8585 jason@ramaui.com • www.ramaui.com

April 11, 2019

Councilmember Keani Rawlins-Fernandez, Chair

Economic Development and Budget Committee 200 South High Street, 8th Floor Wailuku, Hawaii 96793

RE: Testimony Regarding Proposed Fiscal Year 2020 Budget for the County of Maui

Aloha Chair Rawlins-Fernandez, Vice-Chair King, and Members of the Committee:

My name is Jason Economou, and I am testifying on behalf of the REALTORS Association of Maui and its more than 1,600 licensed, professional REALTORS regarding the Proposed Fiscal Year 2020 Budget. The REALTORS Association of Maui commends your hard work throughout the budget process, and your commitment to your constituents is apparent to us all. On behalf of our members, I thank you, and I would like to provide some additional feedback.

First and foremost, I implore you to provide ample funding for the Maui Invasive Species Committee in the upcoming fiscal year. Though the Mayor's proposed budget includes \$2.5 Million for coqui frog eradication, I hope this Committee will see fit to exceed that amount by as much as is feasible. Moreover, I hope this Committee recognizes that aside from funding to fight coqui frogs, MISC would greatly benefit from increased funding towards fighting other invasive species. In particular, RAM would like to request that additional funds be allocated for fire ant eradication.

By now you will have heard ample testimony regarding the terrible impact coqui frogs and fire ants have on quality of life, but there are also severe economic impacts the Committee should be aware of. For instance, a 2006 study conducted by Gettysburg College and UH Manoa examined the economic impact of coqui frogs on the Big Island, and ultimately showed a decline in property values within only 500 meters of coqui frogs. The study looked at over 46,000 property transactions between 1995 and 2005, and determined that there was an annual loss of \$1.3 million to the Hawaii County housing market. The study also concluded that coqui frogs would have a similar, if not much harsher, impact on the Maui market. It is worth noting that the study focused on single family residential homes, and did not examine how coqui might also affect condominium prices or the visitor industry, which are substantial piece of Maui's economic landscape.

Similarly, a study published in the journal *Ecological Economics* in 2015 examined the impact of little fire ants on Hawaii Island. That study estimated residential damages in the amount of \$1,000 per property, and lodging damages as high as \$183,000 per property. The study also found agricultural damages in an amount of \$600 per farm, and nursery damages at \$9,000 per farm, and estimated park damages at \$2,300 per acre. This study concluded with a recommendation to increase current funding going toward managing infestations, as the costs only increase over time if little fire ants are not properly addressed. Maui must be willing to increase funding towards managing the little fire ants now, or we could face similar financial repercussions.

Aside from my request to increase funding for MISC, I would also like to request continued financial support be allocated toward the First Time Home Buyers Program. The Mayor's proposed budget included a generous allocation toward this program, and we hope the Council sees fit to either maintain or exceed the Mayor's proposed allocation. Along similar lines, RAM is supportive of ideas put forth by Councilmembers Kama and Lee regarding funds toward purchasing commercial structures for adaptive reuse.

Finally, I would like to address the proposed real property tax rates for FY 2020. Though I agree with the reasoning behind certain proposed rate increases in the tax classifications of Hotel and Resort and Short Term Rental, I have heard significant outcry over the drastic nature of these increases. In particular, a sudden jump in the Short Term Rental rate from \$9.28 to anywhere near \$16.41 seems unconscionable. Individuals who are lawfully operating short term rentals should pay a higher tax rate than others, but proposed rates of \$15.41 or higher seem punitive in nature. Such a high tax rate increase will lead to higher room rates for lawful short term rentals, and strengthen the demand for cheaper, unpermitted short term rentals that are operating unlawfully and not paying taxes. The County would be better served by a more modest increase in the Short Term Rental rate, and maintaining current Residential, Apartment, Homeowner, and Agricultural rates that are already quite low, rather than reducing them further.

Mahalo, Jason A. Economou

From:

Kanamu Balinbin <nalugrindz@gmail.com>

Sent:

Thursday, April 11, 2019 10:42 AM

To:

Keani N. Rawlins

Cc:

EDB Committee; Kelly King

Subject:

Testimonial presentation on budget

Aloha Keani, Kelly, and all Council members,

Enclosed is brief presentation on how this innovative technology can eliminate our odor problem at all waste water treatment plants in Maui County. Ydro does this by dosing strategic lift stations before it goes to the treatment plant. I have spoken to many visitors and witnessed first hand on many occasions, our odor problem at the Honokowai treatment plant while staying at the resorts right across the street. Tourists have told me that they will still come to Hawaii but will not come to Maui because of the foul smell coming from the plant. These people (Ydro Process) have the technology to eliminate this as a bonus to what normally they do to treat the lift stations. The way the Ydro process breaks down FOG's(fats, oils and grease) is remarkable We have currently been discussing this break thru technology with Mike Miyamoto, Eric Nakagawa, Tamara Paltin, Shane Sinenci and Alice Lee.

Mahalo nui and Aloha,

Kanamu Balinbin

Sent from my iPhone

Begin forwarded message:

From: Kanamu Balinbin < nalugrindz@gmail.com >

Date: April 10, 2019 at 5:16:19 PM HST **To:** keani.rawlins@mauicounty.gov

Subject: Fwd: Ydro Presentation for today's meeting

Sent from my iPhone

Begin forwarded message:

From: Dimitris Chrysochoou < dimitris@tradeworksinc.com >

Date: April 10, 2019 at 2:42:55 PM HST

To: Kanamu Balinbin < nalugrindz@gmail.com > Subject: Re: Ydro Presentation for today's meeting

Hi Kanamu,

Here is the narrative to match the slides!

Good Luck!

On Wed, Apr 10, 2019 at 6:03 PM Dimitris Chrysochoou < dimitris@tradeworksinc.com

wrote:

Hello Kanamu,

Further to our discussion, please find attached the presentation for today's meeting. We will also put together a sheet for you with information for each slide, so you can have notes as well.

Additionally, we requested from one of our clients (the engineer of the facility actually) to provide us with a letter for what they have been experiencing in their facility and sewer system.

Please review both of the documents and let's have a call to discuss.

Thank you.

Kindest regards,

__

Dimitris Chrysochoou BEng Mechanical Engineering MEng Environmental Engineering

TradeWorks Environmental

5045 Orbitor Drive Building 12, Suite 201 Miss., On. L4W 4Y4

T: (905) 366-7660 M: (416) 909-9193 fax: 1-866-529-8497

www.tradeworksinc.com



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Dimitris Chrysochoou
BEng Mechanical Engineering
MEng Environmental Engineering
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Please consider the environment before printing this e-mail.

<Maui Presentation_10042019_Script.docx>



The Ydro Process®

Wastewater Management Solution



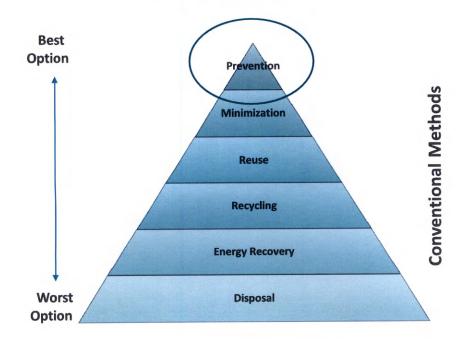
WHAT IS THE YDRO PROCESS®?



- The Ydro Process® is an innovative wastewater management method that results in elimination of excess sludge, FOG, odors, effluent parameter reduction, and more
- Adaptable to any wastewater infrastructure
- The Ydro Process® enables users achieve direct cost savings of 15-35%
- The Ydro Process[®] is the most environmentally and economically sustainable solution to wastewater management

Our Mission is Problem Prevention

The Ydro Process®



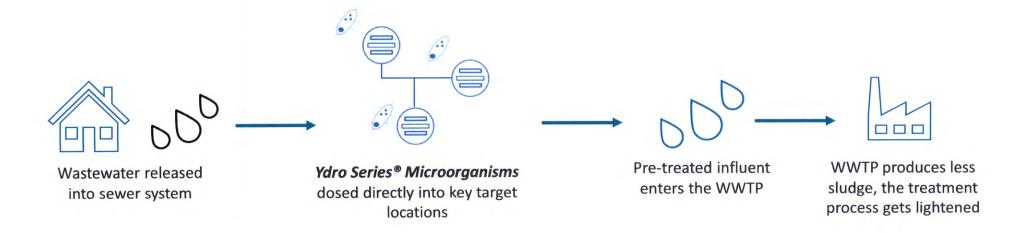
THE YDRO PROCESS® VS. CONVENTIONAL METHODS

We provide solutions to <u>prevent</u> the problem instead of just <u>reacting</u> to it!

PROBLEMS:

- Fats, Oil, Grease (FOG)
 - Build up leads to reduction in flow capacity and raw sewage overflows
 - Machinery and lift station malfunction
 - o Bad odors
 - VERY costly problem Domino Effect of <u>problems</u> and <u>costs</u>
- Sludge
 - Costly byproduct of wastewater treatment
 - 30-60% of total operational & maintenance cost
- Odor
 - Hydrogen Sulfide (H2S) forms in sewer systems and Wastewater Treatment Plants
 - Complaints from the community
 - Costly to treat
 - Expensive equipment or harsh chemicals short-term solutions and ineffective

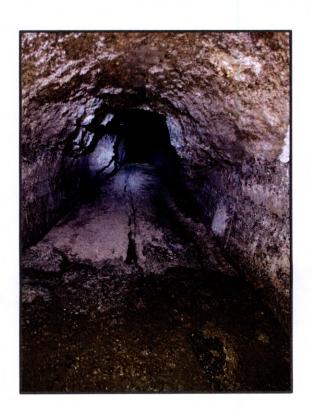
THE SOLUTION - YDRO PROCESS® IN THE SEWER SYSTEM:



Effect of dosing the Grid:

- Elimination of FOG in sewer system, pumping stations, and WWTP
- · Elimination of odors in sewer system, pumping station, and WWTP
- Significant reduction in influent parameters (25% 75%)
- Most environmentally economically effective solution for FOG, Sludge, and Odors

HIGHLIGHTS FROM SOME OF OUR WORK: FOG/ODOR ELIMINATION

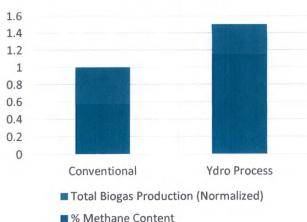


- The Ydro Process® prevents FOG buildup from occurring
- Keeps your sewage collection system healthy
- Eliminates odor, clogs, and FOG



MODERN STREET	Conventional	Ydro Process®
Reduction in Hydraulic Retention Time	30+ days	<10 days
Increase in Organic Conversion to Biogas	50% conversion	>80% conversion
Increase in Methane Content in Biogas	6.000 kcal/m ³	7.000 kcal/m ³
Reduction in Hydrogen Sulfide	2500 – 5000+ mg/l	<100 mg/l





HIGHLIGHTS FROM SOME OF OUR WORK: BIOGAS PRODUCTION/ANAEROBIC DIGESTION

- Methane content >75% (vs. 50% 65% conventionally)
- Used as energy source heat
- Hydrogen Sulfide generation is negligible
- The biogas can be used directly without scrubbing, in cogeneration plant to create electricity
- Associated greenhouse gas reduction
- Overall environmental benefit
- Overall increase in organic capacity of facility (up to 3x)

"Each one of us holds a responsibility to future generations to be our best, to do our best and, to leave our best behind."

THANK YOU!

"Of the earth, for the earth, for the people"
-Kimokeo Kapahulehua





2925 Briarpark, Suite 275 Houston, TX 77042-3720 713/782-0042 Fax 713/782-5337 www.vandewiele-eng.com

April 10, 2019

Ms. Meni Mancini TradeWorks, Inc. 5045 Orbitor Drive Building 12, Suite 201 Mississauga, On L4W 4Y4

Re: Chelford City Regional Wastewater Treatment Facility

Houston Area

VDW&V Project No. 17000-501-1-STP

Dear Ms. Mancini:

As engineers for Chelford City Municipal Utility District (the "District") we are sending this letter as an update to the on-going fats, oil and grease ("FOG") treatment in the Regional Wastewater Treatment Facility's (the "Facility") collection system.

Storm Maintenance began FOG dosing the Facility collection system in late 2018. During the initial 48 hours extremely heavy debris was witnessed at both of the Facility's on-site lift stations. After that initial 48 hours the debris on the bar screens has returned to normal. The early debris movement demonstrated graphically how well your FOG treatment can improve the debris—caused blockages in the collection system.

The water districts in the Facility collection area have increased the number of sites where they dose the FOG bacteria in an effort to reduce the routine line cleaning in those areas. It is too early to tell if this works or not because the new dosing locations began last month. Based upon the experience at the Facility's on-site lift stations, we anticipate the relocated dosing will significantly reduce the number of line cleanings required.

Initial findings are that there is a secondary benefit of the FOG dosing (and as predicted by TradeWorks) has been a reduction in the influent BOD₅ (5-day carbonaceous biochemical oxygen demand) and COD (chemical oxygen demand) in the two on-Facility lift stations.

Before FOG dosing the influent BOD5 was averaging between 180 to 400 mg/L. After the FOG dosing took effect, the influent concentration has dropped to between 100 to 160 mg/L. COD concentrations have seen a similar reduction. We have seen a corresponding reduction in the number of dewatered sludge canisters hauled from the Facility as a result.

We sincerely appreciate the effort of TradeWorks and Storm Maintenance in assisting us with this Facility and its collection system.

If anyone has a question about The Chelford City MUD experience they may contact me at my office or by email at nscholes@vandewiele-eng.com.

Sincerely,

Norman. F. Scholes, P.E. Senior Project Engineer Van De Wiele & Vogler, Inc.

TX Registered Engineering Firm No. F-148

Norman F. Scholes

Presentation Notes

SLIDE 1: Welcome, my name is Kanamu and I will be talking to you today about a new and innovative biotechnology called the Ydro Process®

SLIDE 2: The Ydro Process® is an innovative wastewater/organic waste management method that results in elimination of excess sludge, FOG, odors, effluent parameter reduction, and much more. It is adaptable to any wastewater infrastructure currently in place. It results in users achieving direct cost savings of around 15-35%. The Ydro Process® is the most environmentally and economically sustainable solution to wastewater management

SLIDE 3: Our mission is Prevention. We are a technology that goes beyond reactive solutions and instead, prevent the problems from occurring. Why focus on treating a problem, if you don't have it in the first place?

While other technologies result in having to deal with these remaining categories (point to bottom categories of pyramid), our technology eliminates all of this.

SLIDE 4: There are major problems in wastewater management that I want to highlight today:

- The first is Fats, Oil, Grease (FOG)
 - Build up leads to reduction in flow capacity and raw sewage overflows
 - Machinery and lift station malfunction
 - o Bad odors
 - VERY costly problem Domino Effect of <u>problems</u> and <u>costs</u> (with each problem, there is a secondary issue that arises, and so on and so forth, the same is true with the costs. As issues stack up, so does the cost to try and fix each one).
- The second is Sludge
 - Costly byproduct of wastewater treatment
 - 30-60% of total operational & maintenance cost
- Finally, there is Odor
 - Hydrogen Sulfide (H2S) forms in sewer systems and Wastewater Treatment Plants
 - Complaints from the community
 - Costly to treat
 - Expensive equipment or harsh chemicals short-term solutions and ineffective

All of these problems have the same thing in common: They cost A LOT of money. Most of the time, the solutions are not reliable.

SLIDE 5: The solution to all three of these problems is the Ydro Process application in the sewer grid. Wastewater is released into the sewer system, and it is here in strategically predetermined locations that the microorganisms are dosed. This allows for pre-treatment of the influent before it enters the plant. As a result, the plant produces less sludge, since the load is lightened. Picture it this way, the less you eat, the less you poop!

The results are no odor or FOG in the sewer system, pumping stations, and wwtp. The influent parameters are reduced from 25% - 75% depending on extent of application. This is really the most environmentally and economically viable solution out there.

SLIDE 6: Here are some real results from our previous applications of FOG elimination. On the left is a picture of a sewer system bogged down with FOG or "fat burgs" on the right is a picture of the before and after treatment for FOG. On the top you see how much FOG there is, where below, we have completely eliminated the existing FOG and prevented future build up.

SLIDE 7: We also work on Biogas Production through Anaerobic Digestion. We are able to increase the biogas production by 25% - 80% (depending on local conditions) and increase the concentration of Methane from 50% - 65% which is the normal rate, to over 75%.

- The Biogas can be used as energy source heat
- The Hydrogen Sulfide generation is negligible
- The biogas can be used directly without scrubbing, in cogeneration plant to create electricity
- Associated greenhouse gas reduction
- Overall environmental benefit
- Overall increase in organic capacity of facility (up to 3x)

SLIDE 8: That's enough facts and numbers I think for one day, the take home message here is that this process really is the best of both worlds when it comes to sustainability both environmentally and economically. We are a small island that is only getting smaller with more and more people, so we can't afford to increase our footprint when it comes to wastewater treatment. Instead of thinking about expanding, lets instead make what we have work more efficiently. We are a solution that is of the earth, for the earth, and for the people. Thank you.

From: Laura Berthold <laurakb24@gmail.com>

Sent: Thursday, April 11, 2019 9:07 PM

To: EDB Committee

Subject: EDB-1: in support of Maui Nui Botanical Gardens

Honorable Members of the Council:

I am writing to urge you to support Mayor Victorino's FY2020 budget request for Maui Nui Botanical Gardens (shortened to MNBG or Gardens).

I love the Gardens for so many reasons. They inspire and educate people on Maui by hosting so many great events. I just went to the Ho'omau fundraiser for Hawaiian language immersion schools. The Ulu festival and Arbor Day events are my favorites and my organization participates in those and we are able to educate the public about native trees and birds. We've also been able to host educational presentations at the Gardens. The staff at the Gardens are also working hard to preserve both native and Polynesian introduced plants.

In particular, they are one of the storage facilities for seeds from one of THE most important trees in Hawaii, the Ohia. I love going

there- I always learn something new and the staff has so much knowledge to share.

MNBG is the best place on Maui for visitors and residents to learn the cultural history of Maui County's unique plants. MNBG provides a place for students of botany and Hawaiian culture to learn plant identification and experiment with traditional uses. They host more than 1,500 Maui students each year in educational activities that teach native Hawaiian plants and their uses.

Thank you for preserving and funding an important institution on Maui.

Aloha, Laura Berthold 2465 Olinda Road, Makawao, HI 96768 808-269-9381

From: Leilani Kepler <lekeple@alulike.org>
Sent: Thursday, April 11, 2019 10:41 AM

To: EDB Committee **Subject:** Kihei Youth Center

Dear Budget Chair Rawlins-Fernandez and Budget Committee members,

I am contacting you today with the hopes that you will continue to support the Kihei Youth Center. They have requested \$276,054 for the upcoming 2020 fiscal year. KYC is currently a recipient of this amount, and they have been responsible with all funding they have received from the County of Maui. This grant is vital for their survival, and it will allow them to continue the quality work they do. For over 36 years, KYC has been the only youth center in Kihei and they continue to be a safe place for our kids, both after school and during vacation periods.

I currently work with KYC. They are incredibly communicative, responsible and pleasant. I have enjoyed working with them, and I hope to continue to do so in the future.

I am open to any questions you may have if you want to contact me directly.

Mahalo,

Leilani Kepler
Program Specialist III
Employment and Training Department
Alu Like, Inc.

J. Walter Cameron Center 95 Mahalani Street, Suite 28–1B Wailuku, HI 96793 (808) 242-9774, Extension 401 www.alulike.org

Directions to the office: When you turn into the Cameron Center, take an immediate right into the lower parking lot. Take an immediate left, and drive all the way around to the pink building. Employment and Training is the second office on the right.

From: Lisa Beck lisabeck10@gmail.com>
Sent: Thursday, April 11, 2019 6:15 PM

To: EDB Committee

Subject: EDB-1

Aloha

Thank you for the work you do in helping to figure out the budget for the coming fiscal year. I wish I could have been at the meeting in person but unfortunately could not attend.

I would like to say that a lifeguard tower is needed at Paia Bay in front of the Paia Youth and Cultural Center and the PYCC could utilize funding for any number of fabulous projects they have in the works or in mind.

The PYCC does great things for the children of our community. From teaching them how to cook and feeding them healthy food, to teaching them how to work with media and giving them the opportunity to experience being on the radio live. They are the only youth center on Maui operating a supervised skate park requiring the mandatory use of helmets In order to be able to skate there.

Kids can enjoy skateboarding and learn many skills at PYCC including disaster preparedness through the CERT program implemented by Maui Hero Project. My son has been fortunate enough to be able to have done a working internship at the skate park. He has also graduated from the CERT program where he learned valuable skills such as CPR and first aid, as well as swift water rescue and how to triage victims in multi-trauma situations. I asked him what I should say at the meeting tonight and he said to ask for a lifeguard tower in front of PYCC. I think that's a great idea! It's a very popular place for youth and the beach is packed much of the time and with people from all walks of life including kids tourists elderly etc.

So that's what I will ask for, money for the youth center and money for another lifeguard tower.

Thank you for reading this email and for your valuable work.

Sincerely,

Lisa Beck

From:

Lis Richardson <LisBob@hawaii.rr.com>

Sent:

Thursday, April 11, 2019 2:59 PM

To:

EDB Committee

Cc:

Lis & Bob Richardson Letter in Support of UH Sea Grant

Subject: Attachments:

Letter supporting UH Sea Grant 2019.pdf

(signed hard copy attached)

April 11, 2019

To: Maui County Council Economic Development and Budget Committee

From: Bob and Lis Richardson, and South Maui Volunteers (HoAloha Aina)

Dear Chair Rawlins-Fernandez and Economic Development and Budget Committee Members:

Please continue to support the University of Hawaii Sea Grant Program on Maui.

We have worked with UH Sea Grant on Maui for the past 15 years.

We began in 2003 when Zoe Norcross Nu'u was the Maui UH Sea Grant agent and we worked with her prior to Tara Owens being hired when Zoe left the island. The UH Sea Grant impact on our dune restoration work is striking. We cannot operate without the input that UH Sea Grant provides. During the time between Zoe leaving and Tara being hired Maui was left with no UH Sea Grant agent. During that time we had to deal with agents on Oahu for all dune related scientific information. That proved to be almost impossible because those agents have responsibilities on their own island and could not attend local meetings; could not voice their concern for local Maui issues; and could not meet-and-greet the public about current topics.

Tara Owens and other UH Sea Grant agents throughout Hawaii are in constant contact with other coastal shoreline experts world wide that provide a network of best practice procedures for shoreline management.

Some might say that the Coastal Zone Specialists with the Maui County Planning Dept. know the science and can interpret best practices if necessary, or that the Maui Parks Dept. can handle their own beach park coastal areas without input from UH Sea Grant. That is not what happens. All of the various county departments work for the administration and there are subtle pressures within every department to view situations from the perspective of the administration of that department.

Tara, Zoe, UH Sea Grant are the science behind the scenes and without their input Mother Nature and science has no one in their corner. Climate change and sea level rise impact our shorelines every day and that impact will only increase in the future. There is no one else on Maui at the County, State, or Federal level that can deal with the science behind these coastal zone processes. We need more help from UH Sea Grant in the future, not less.

Mahalo!

Lis & Bob Richardson South Maui Volunteers 95 Hoohale St Kihei, HI 96753 808-874-9374 (Home) 808-344-5777 (Cell) (503) 433-1885 (Fax)



Hoaloha 'Āina, South Maui Volunteers Bob and Lis Richardson 95 Hoohale Street Kihei, HI 96753 808-264-1798 www.SouthMauiVolunteers.com

April 11, 2019

To: Maui County Council Economic Development and Budget Committee

From: Bob and Lis Richardson, and South Maui Volunteers (Hoaloha 'Āina)

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Tara, Zoe, UH Sea Grant are the science behind the scenes and without their input Mother Nature and science has no one in their corner. Climate change and sea level rise impact our shorelines every day and that impact will only increase in the future. There is no one else on Maui at the County, State, or Federal level that can deal with the science behind these coastal zone processes. We need more help from UH Sea Grant in the future, not less.

Mahalo! ->

Bob Richardson

From: Rachel Coles <rachel.coles1@gmail.com>

Sent: Thursday, April 11, 2019 9:21 PM

To: EDB Committee **Subject:** Testimony

Aloha Council and Committee members,

My name is Rachel Coles. I live in Pukalani. I have been a social worker for the last two years on Maui, and worked with two community and government organizations, both of whom accessed Maui Food Bank. In that time, I have seen a lot of people who have a hard time making ends meet to feed their families. I saw many people: homeless folks worrying about whether they will eat that day, parents worrying about not being able to pay rent to feed their kids, and what choices they will have to make. Food is one of the most basics of human necessities on Abraham Maslow's hierarchy of needs. Without enough food, people cannot think about doing the things that give light to our community: studying in school, doing art, music, science, athletics, community work, being family and friends. More studies are coming out each month that demonstrate in new ways that not having enough food has long-lasting and far-reaching effects on people's health and abilities.

Words are not sufficient to express the relief that I saw on the faces of parents, kids, and citizens of all ages when they receive food from the Maui Food Bank. Food from the Maui Food Bank ensured that they had one less thing to worry about, and they could focus on being community members, being mothers and fathers, aunties and uncles, grandparents, and children. Maui Food Bank provides food security, peace of mind, and critical nutrition to many of Maui's vulnerable families, without which they would suffer. Continued funding is essential for Maui's struggling citizens to maintain their health and wellness, and ultimately, helps everyone on Maui to fulfill their potential as citizens. Please continue to fund the Maui Food Bank, and thank you so much for your support and the time you have taken to hear everyone.

Mahalo, Rachel Coles

From:

Rebecca Rhapsody <becca.rhapsody@gmail.com>

Sent:

Thursday, April 11, 2019 5:47 PM

To:

EDB Committee

Subject:

Please support and fund Common Ground Collective

Dear Council members,

I am submitting testimony to ask you to provide funding in the amount of \$25,000 to the Maui based 501c3 Common Ground Collective. This organization is innovative, intelligently designed, and has the passion and stick-to-it follow through to help increase food security and economic benefits in Maui County by using the assets that we already have!

- They are making it easier to connect local businesses with locally sourced produce.
- They are collecting data to increase local connections between farmers and the market
- They are inspiring, educating, and supporting landowners to convert their properties to small passive farms

This organization is also an upstanding giver to the community.

- They providing education and outreach to community members
- They provide locally grown produce for the Kids Cook with Heart program.
- they have become involved in supporting the Maui Food Bank's Give Healthy Challenge to promote healthy donations to the Maui food bank for their recipients, and they will be launching their Foster Farming upcountry gleaning program very soon.

All of these services are incredibly beneficial to the Maui community and they are only getting started. They have done the majority of this work with very little donations and funding. With support from the country their efforts will multiply and make a huge different to the food security of our island community.

I ask that you please support Common Ground Collective and provide them with \$25,000 for their program costs.

Mahalo,

Rebecca Rhapsody
Co-Founder & Story Facilitator

The Story Connective

inspiring stories of resilience and possibilities www.storyconnective.org

check out our newest Podcast:

Travels & Inspirations w/ Loxley and Rhapsody

From: Renee Gaines < reneegaines@hawaii.rr.com>

Sent: Thursday, April 11, 2019 8:46 AM

To: EDB Committee

Cc: kiheiyouthcenteronmaui@yahoo.com

Subject: Kihei Youth Center

Budget Chair Rawlins-Fernandez and Budget Committee members,

For over 36 years, KYC has been the only youth center in Kihei and they continue to be a safe place for our kids, both after school and during vacation periods. My grandson has been attending the Kihei Youth Center for about 10 years now and it's has been wonderful to have such a valuable program. If KYC not been available he would have been a "latch key" student and instead of graduating from Maui High this year our story could have had different outcome.

Please support the Kihei Youth Center's request of \$276,054 for the upcoming 2020 fiscal year budget.

They are currently a recipient of this amount and have been a good steward of any and all funding from the County of Maui. It is vital that they received this grant as it will allow them to continue the good works they do and have done since 1983.

Thank you for your support of the Youth Center. Renee Gaines

From:

Roberta Sieck <sieck320rj@gmail.com>

Sent:

Thursday, April 11, 2019 2:13 AM

To:

EDB Committee

Subject:

KYC

Dear Budget Chair Rawlins-Fernandez and Budget Committee members,

Please support the Kihei Youth Center's request of \$276,054 for the upcoming 2020 fiscal year budget. They are currently a recipient of this amount and have been a good steward of any and all funding from the County of Maui. It is vital that they received this grant as it will allow them to continue the good works they do and have done since 1983. For over 36 years, KYC has been the only youth center in Kihei and they continue to be a safe place for our kids, both after school and during vacation periods.

My husband and I volunteer at KYC as often as we can and feel it is a nurturing and supportive environment for our youth. The examples and lessons of positive attitude, behavior, and character are critical for our young people. It is a gift for Hawaii's future to support the youth center.

Jerry and Roberts Sieck

Sent from my iPhone