



Renewing Landscapes, Lawncare & WaterTreatment

Natura  Solve

***Featuring SoilMix & WaterMix***

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## Introduction

Speaking right now for myself as the author, I hated pulling weeds when I was a kid. My mom would yell for us to come out to help, and I'd pretend I didn't hear the first couple of times. I didn't like mowing the lawn or planting flowers, either - but I've always loved nature, being outside with all the smells and textures our vegetation has to offer. As an adult, I didn't start out with a serious trajectory, but now - I'm dedicated to the renewal of our Earth and her incredible kingdoms. We've inherited such an incredible space, and I'd like to repay my gratitude through hard work and the beautification of our lifestyles. I feel the best way to do this is to dive into the soils and water, first, with Natura Solve, through SoilMix, and WaterMix.

Your career or business in the landscape, lawns or the environment is likely what brought you here, but even if you're not in the business, this book will provide a great introduction to the basics of Natura Solve. We have included our two core products, some uses and resources for you, specifically. The hope is that by providing you with tools to add profitably to your income, you'll have an initial spark that we can then fuel with the incredible awesomeness of what we've got. We aren't kidding, either. This stuff does amazing things - in alignment with nature - easily. Sounds too good, yada yada. We know, and hear it all the time. Thing is, I come from a world of tactics, strategies and messaging. I come from marketing and business development, where it's tough to find a quality entity offering a quality something for a reasonably fair price but, that's a whole different story. I promise, we'll get to the - "Why haven't I seen these before"'s and the "Snake oil" comments but, I'm pretty sure that as an intelligent person in a capitalist and elitist social system, it won't be a big leap to see why nature was diced up into the lowest sellable denomination and promoted to the highest bidder - it's just who got control and built this place. It's also cool to know that not everyone feels that having everything that can be made, is the goal - and I'm one of those. Natura Solve has very much been a labor of love.

I built this company to provide actual solutions (not ones that create side problems or a never-ending need) to those that want to enable their own environment, or help to renew this incredible place we live in. It's tough - harsh even, here on Earth, but it's ours and we need to do a better job at providing for all the critters that are subject to the impacts of our lifestyles, as well as for ourselves and the generations behind us.

Natura Solve is going to have a whole host of cool and simple solutions for you and your business, and we've started with SoilMix and WaterMix. The foundation for this product stopped me in my tracks, changed my life, and gave me something worth upping my game for. I went from VIP parties at all the swankiest of places in Vegas, Palm

Springs, Miami Beach, to barren dirt and algae, mosquito and waste water from every messed up industrial process I've come across. I went from writing press releases for Snoop Dogg and K2 Rhym to pastures and fish hatcheries - and I love it.

No party will eclipse the sunrise over a beautiful mountain, stream or lake in my mind. No million dollar idea has ever been as valuable as materials to get my soil producing. There's really no substitute for eating something you've grown from a seed or trimming plants

that you care for each week. I don't even mind the weeds now - getting the whole root is a challenge.



I love the place we live in and I am deeply thankful for your hard work, dedication and commitment to learning something new here. I'll try to make it interesting, so that you aren't bored, and feel free to write to me at [jmitchell@naturasolve.com](mailto:jmitchell@naturasolve.com) if you have input or suggestions to include.

I still have my marketing and business development company, too, and I have some free resources I'm happy to share if you'd like. The better we all work together, the better our collective spaces will be. The runoff from your greener grass can help to clean the waterways and rid the world of it's number one killer - but we'll get to that, too.

For now - marketing requests go to [newdominionconsulting@gmail.com](mailto:newdominionconsulting@gmail.com).

Before we move on we offer this Dedication...

To you, and to your success.

*Now onto the next section, about Natura Solve and our core offering:*

## Overview



This eBook has been created in response to the growing need for landscapers, lawn care companies and other stewards of the environment, to have a sustainable solution for water and soil renewal. There's come to light an array of issues from our chemical fertilizers and pest control substances, but we aren't going to get the masses to stop using them anytime soon - without viable alternatives. What we have - we believe - is just a twitch better. We have a product that allows you to do what you will, and it goes in to help with the residual. For chemicals, we help to break the complex chemical bonds and render components inert. For oils and greases, we help to degrade them quickly, coming out with a low volume topsoil in most scenarios.

From greener lawns with far less water to decreased fertilizers, we're delighted to show you how our easy-to-use, mix-and-spray products can help add to your bottom line, from now into the future, in multiple ways. It's exciting to have something that's both great for the environment - bees love it - and inexpensive. Another great benefit to you and your business long-term, is that you'll need less of our product over time, not more. You'll be able to sustain a service without adding high hard costs.

We have spent a lot of time getting the product and our offering just right, and we still feel we have a ways to go, but we have a solid foundation for you, your business and those you serve. Our products have an immediate impact on soil condition and moisture retention and long term increases in nutrient levels and vegetation. Once you start using the product, we'd love a review on Google or facebook, and we're happy to share citations about you and your business as well. Feel free to email us at [naturasolve@gmail.com](mailto:naturasolve@gmail.com) if you have specific requests.

## **How to Use this eBook Best**

Using this eBook is simple, we think. Read through it, identify the charts and processes that are right for your needs, and then order the product Online at:

<http://NaturaSolve.com/buy>

or by calling us at 801-661-2206 (US).

The charts and processes included have been developed by other professionals in your arena, in the field.

## Why Renewal?

We have water available, it's just not in good shape. Same with the soil. We realized some years back, right about when investors started to move their money from gold to water - that there may be a problem ahead. Research obviously confirmed and we - as first the Founder and then the team - made the leap into helping people through the finding of products and services that would return our vital resources to us.

We also know that by finding ways to renew water that has been used - for whatever purposes - would lead us to an opportunity to renew again and again.

We have products that will help to renew the resources we've been given, time and again. By using SoilMix, for example, you'll be helping to not only decrease water and fertilizer needs, you'll be helping to balance out the ecology - the relationship between soil, life forms and insects, and plants. That stability provides for more than just the short term benefit, it provides for a solid foundation for our future.

When you work with Natura Solve and our products, you can confidently say that you can help clean up that chemical residue that exists from killing off unwanted pests or removing that oil that spilled out of the mystery bucket most households have, from the soil or the water, while staying beneficial to the natural environment.

Read on to learn more about our products specifically, and know that each time you use one of them, you'll be renewing the earth and waterways you are treating.



## Why Natura Solve?

First, we're pretty awesome. We like people and nature, progress and innovation and we aren't afraid of really, really hard work. We think that has value to you as a customer and we like to share the personal dedication we all have.

Next, we are based in the US and have teams locally and growing around the globe for support and opportunity. Most opportunities that come our way benefit our customers, either directly through low pricing or application devices, or indirectly, through increased distribution outlets or partners.

Natura Solve believes in a clean and sustainable Earth, but we know we won't get there by ignoring who we actually are as a species. We don't believe in putting things 'back' - we don't even think that's possible. We also don't think it's beneficial. See, we interpret the environment is malleable, capable of changing with climate and planetary changes, but we also see that the environment has been shaped and brought along by us. We have learned that through learning about fungi, bacteria and natural processes, we can clean up the worst contamination, enable localized species to thrive and provide for robust and diverse nature. We've stripped a lot of good stuff out of the soil and water, our WaterMix and SoilMix helps to put that stuff back.

Our team is based in Utah, with labs and production in North Salt Lake and some cool offices where we host events and open houses, in Lehi, Salt Lake, Park City, Boulder, CO and soon - Boise, ID. We're happy to meet with you or hop on a zoom call if you'd like.

Our technical team is constantly working on new and better. We look for opportunities to source as close to home as possible and we work within the clean and sustainability community to bring up new innovations in the arena. Hop onto our social media - we're on facebook, Instagram, TikTok - which we're still getting the hang of - and LinkedIn. We post tips, resources and information about the industry, and we've got a lot in the works, much that may benefit you and your bottom line.

We look forward to seeing your reviews, before and after images and always invite you to submit your feedback directly as well. [CustomerService@NaturaSolve.com](mailto:CustomerService@NaturaSolve.com).

## **SoilMix Introduction**

SoilMix has a number of agricultural and domestic uses, including lawn care, composting, fungus control, water reduction, fertilizer reduction, and agricultural yield increase.

SoilMix is composed of a unique blend of bacteria that absorbs harmful pathogens while increasing organic matter in soil. After only a few applications, your soil will have greater nutritional density, improved capacity to retain water, and increased humic acid composition.

Our product is also safe to use around children, pets, bees and other wildlife.

## **SoilMix Uses and Sample Treatment Schedules**

The Basic Treatment Cycle consists of two phases: the Build-up Phase and the Enhancement Phase.

During the Build-up phase our goal is to facilitate the growth of healthy bacteria in your soil. Over the course of 6 weeks you'll apply one to three separate treatments of SoilMix to your lawn or garden.

The Enhancement phase is like maintenance. We want to preserve the growth of healthy bacteria in the soil to continue seeing the healthy growth of your plants. Since the bacteria increase the soil's capacity to

retain water, you will be able to decrease watering by 30-50% after the Build-up phase.

We recommend 1 to 3 applications during the Enhancement phase.



**Instructions (Home & Garden):**

Combine 1.5 oz SoilMix with 10 gallons of water (total. Split the product if you are using a smaller hand or backpack sprayer). This will be enough to cover about 10,000 square feet or about a quarter acre.

Use a hand or backpack sprayer to apply the mixture to the lawn, compost or garden.

On the third application, the ratio of SoilMix to water will decrease from 1.4 oz per 10 Gallons to 0.75 oz per 10 gallons.

For sequencing of treatments, see the recommended SoilMix Basic Treatment Cycle Schedule below.

**Extra Tips:**

- After spraying lawns, apply any extra SoilMix to compost pile or gardens.
- For more potent properties, let your mix sit for up to 24 hours before applying.
- It's best to apply when daytime temperatures are consistently above 50 F.
- Make sure that the soil remains moist at the beginning of treatment cycles so that the bacteria remain as hydrated as possible while they get going.

A small-scale residence (less than 1/4 of an acre of landscape) will only need 3.5 ounces of the product properly diluted in water, per year for a maximum of six treatments and a minimum of two.

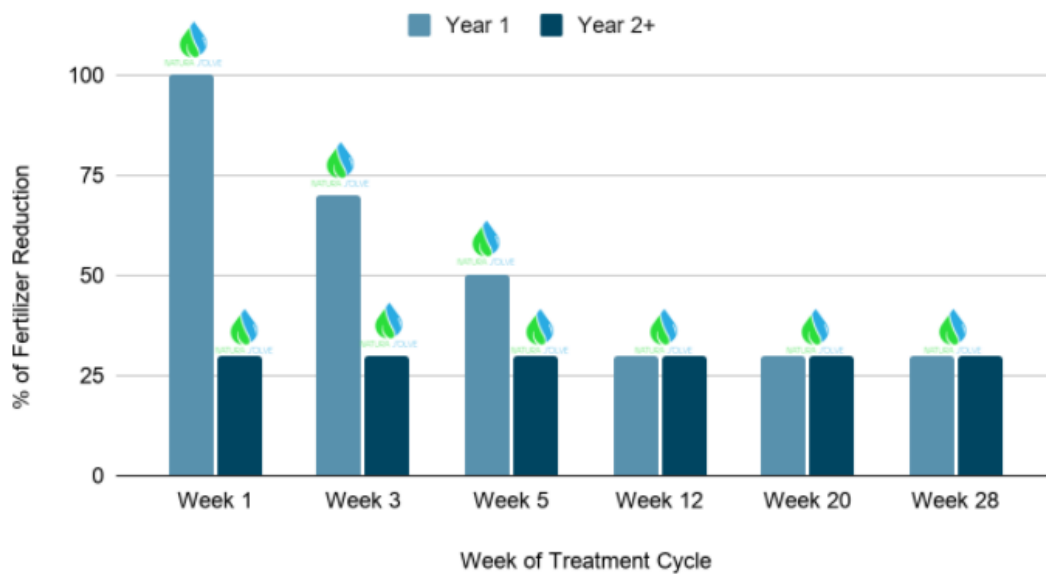
The window of the application is between the last frost of spring and the first frost of Fall. After the first three applications within the initial six-week window, it is recommended to divide the remaining time of the growing, if on a six week schedule.

**Sample Six-Week Treatment Cycle**

Week 1	Week 3	Week 5	Growing 1	Growing 2	Growing 3
Application 1	Application 2	Application 3	Application 4	Application 5	Application 6
Mix 1 ounce per 5 gallons to treat 1/3 of an acre	Mix 1/2 ounce per 5 gallons to treat 1/3 of an acre.	Mix 1/2 ounce per 5 gallons to treat 1/3 of an acre.	Mix 1/2 ounce per 5 gallons to treat 1/3 of an acre.	Mix 1/2 ounce per 5 gallons to treat 1/3 of an acre	Mix 1/2 ounce per 5 gallons to treat 1/3 of an acre
Reduce water by 10%. If required, reduce by 30%.	Reduce water by 20%.	Reduce water by 30%.	Reduce water by 40%.	Monitor- May reduce water 50%.	Monitor- May reduce water 50%.

## What does a Treatment Cycle Look Like


### Fertilizer Reduction



**Treatment Cycle-** green spaces receive 6 applications a year. Fertilizer can be reduced by 10% the following day conservatively. Fertilizer to be reduced 70% after first 6 weeks.

**Year 1-** Fertilizer reduction by 70%. Water reduction can be expedited based on need.

**Year 2+-** Fertilizer reduction maintainable at 70% of year 1 water use. Some clients able to reduce fertilizer additional 5-10%. Optimal conditions in soil generally reached year 3.

 **Treatment-** icon indicates a treatment cycle of product.

## Water Conservation

Our products are valuable tools that can improve water conservation, particularly for arid region sites, effectively reducing the amount of watering or irrigation required to maintain turf and vegetation for various recreational, industrial, commercial, agricultural and residential uses. Project data indicates the core bacteria-enzyme product, when mixed and applied with the proper amount of irrigation water for a particular site on a regular schedule, re-establishes or improves (re-conditions) the microbial/biologic activity in soils, particularly in root zones. This re-conditioning improves the water holding potential of the soil, which in turn reduces the amount of watering/irrigation that is scheduled for a specific site.



Our advanced solution is more than just a soil re-conditioner. Originally developed as an agricultural supplement, the product contributes to water conservation for arid region farming by improving root structures and associated water and natural nutrient uptake; and thicker stems, cuticles and leaves, also reducing the amount of water loss due from evapo-transpiration. The product is used extensively in the Middle East and South Africa, under harsh, arid climate conditions to maintain golf courses, landscape vegetation and various agricultural crops.<sup>1,2,3</sup>



A key item of note is the natural bacteria-enzyme formulation of the product improves or re-establishes the naturally occurring microorganisms in soils that contribute to vegetation health and growth. This can reduce or eliminate the need for supplemental chemical fertilizers including nitrogen, phosphorus and potassium (N, P, K). These fertilizers have contributed to decreased water quality in many surface water resources and groundwater aquifers. The use of Our Advanced Solution can not only contribute to water conservation, it can also improve surface and groundwater quality by eliminating the need for chemical fertilizer applications.

Once you have applied irrigation water to a site on a regular schedule, our experience indicates that the amount of applied product could be reduced over time while still maintaining optimum conditions. Site specific monitoring is required to determine the optimal product application rate for use.

For large turf management areas, the product can be applied via a mixing tank which feeds into the existing irrigation system. For small, easily accessible sites that require limited treatment, the product can be applied via hand held sprayers that are available for purchase in most hardware stores, or backpack sprayers which can be purchased through various equipment supply shops and catalogs. Portable, wheeled high-pressure sprayers (electric or gasoline powered) can also be utilized for smaller, easily accessible sites although the product should be applied under low pressure to allow slow, adequate soil percolation without impacting vegetation. The product can also be applied to a site via a truck or trailer mounted tank.

### SoilMix Labels and Supporting Information



**SHAKE WELL • NO SUNLIGHT • NO FREEZING TEMPS**

PHYSICAL FORM:	Liquid	APPEARANCE/DESCRIPTION:	Liquid
COLOR:	Dark red to black	ODOR:	Mild sweet odor
TASTE:	Unknown	PARTICULATE TYPE:	Not relevant
PARTICULATE SIZE:	Not relevant	VAPOR DENSITY:	<1.0
VAPOR PRESSURE:	20 mm Hg	pH:	6.8
SPECIFIC GRAVITY:	1.12-9.4 lbs. per gallon	MELTING/FREEZING POINT:	Not relevant
WATER SOLUBILITY:	Infinite	INITIAL BOILING POINT AND BOILING RANGE:	212degree F
FLASH POINT:	None	EVAPORATION RATE:	Not relevant

**KID + PET SAFE**  
Use Within 5 Years of Opening

INGREDIENT	PELs	ACGIH	TLVs
Palm Oil	Not Listed	Not Listed	Not Listed
Soy Oil	Not Listed	Not Listed	Not Listed
Corn Oil	Not Listed	Not Listed	Not Listed
Sunflower Oil	Not Listed	Not Listed	Not Listed
Kelp	Not Listed	Not Listed	Not Listed
Molasses	Not Listed	Not Listed	Not Listed
Polysorbate 80	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed
Bacillus Bacteria	Not Listed	Not Listed	Not Listed



**Usage Instructions Online.**  
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## **WaterMix Introduction**

Similar to our SoilMix, our WaterMix product is a blend of naturally found microorganisms tailored to thrive in aquatic environments. Through the communal interactions of the biology, organic compounds, chemicals, and heavy metals are removed from the water column.

The biological functions of the bacteria and fungi lead to lower dissolved solids, clearer water quality, reduced evaporation rates, cleaner water, reduced or eliminated algae populations, the elimination of pathogens, hydrocarbon elimination, and a healthier environment for other larger organisms to thrive.

## **WaterMix Uses and Treatment Schedules**

WaterMix has extensive use opportunities. Depending upon the characteristics of the body of water and desired use may necessitate innovative approaches or additional equipment. This section will delve into some of the uses of WaterMix and offer useful tips or considerations.

One of the original uses, and perhaps the most ubiquitous in the research, is how microorganisms remediate hydrocarbons. Hydrocarbons from C<sub>6</sub> to C<sub>40</sub> are utilized as an energy source for the bacteria and fungi. By breaking apart the bonds and oxidizing the components, oils are “transformed” into gas byproducts. The byproducts can then be used by plants to promote healthy growth. Typical application rates for this treatment are 1 oz of WaterMix to 1200 gallons of water. Dissolved oxygen levels should remain above 1.0 mg/L and we recommend closer to 3.0 mg/L if applicable. The process creates a slightly foam-like material and water that is environmentally safe to discharge.

An easy to witness application process is the prevention of eutrophication in water. Harmful algae growth, such as cyanobacteria, pose health risks for wildlife, native flora, and humans. Simultaneously disrupting recreation, tourism, and the beauty of the environment. Pollution of this sort can be difficult to pinpoint and is often classified as non-point source pollution. While we advocate for the prevention of contaminate discharge, sometimes it is impossible to prevent. When WaterMix is added to a body of water, be it a lake, river, stream, front yard water feature, or a bird bath, the algae are eliminated or greatly reduced. This occurs due to the competition of biology for natural resources. The WaterMix colony utilizes the same resources, typically nitrogen and phosphorus, that algae blooms utilize. The difference is that the WaterMix is much more effective at oxidizing and reproducing. This means that the algae simply can not find a

food source and that they do not reproduce, ceasing to be an issue. The WaterMix colony quickly oxidizes the substrates in the body of water and then perishes. With the added benefit of being safe to interact with, colorless, odorless, and tasteless, using WaterMix to treat for algae is swapping out one harmful microorganism, for a colony of helpful or benign microorganisms.

Application for algae is simple, apply over the surface of the water at a ratio of 1 oz to 1200 gallons of water every two weeks algae is present. Algae growth is a surface phenomenon and the circulation of layers is not necessary. Dissolved oxygen should be present in the system since algae growth is occurring but should still be monitored and maintained at above 1 mg/L. After algae has been eliminated from the body of water, dosing can be scaled back to 1 oz to 5000 gallons of water. This should be done every three weeks in order to maintain the suppression of algae. If algae does start to grow back, simply apply the product at the original dose rate. Algae does not grow in cold temperatures, so applying products in the winter may not be necessary to prevent algae.

An exciting use for WaterMix is in the processing of wastewater. There is an array of wastewaters that are produced. WaterMix can treat water for organic and inorganic materials. Providing an opportunity to use a natural solution to the prevention of pollution. The wastewaters that will be covered are not comprehensive but will be a good foundation and cover the contaminants of focus.

Wastewater treatment facilities,



where the water goes after we flush the toilet, already have systems in place that utilize the oxidation capabilities of biology. Where WaterMix is concerned, our colony outperforms what is currently being used. Expanding on the performance of the solution, organic materials will be oxidized, meaning nitrogen and phosphorus will be removed from the system, not much different from the current organisms. What is different is the rate at which this is achieved. The processing of organic compounds is done much faster and more efficiently.

Aside from the effective removal of nitrogen and phosphorus, WaterMix rectifies other contaminants that wastewater treatment facilities may not be able to treat for. I am referring to hormones, chemicals, pharmaceuticals, lipids of varying size, and heavy metals. Current wastewater plants do not have a system to remove pharmaceutical or hormonal compounds from water. This means that small amounts are being put into the water cycle and being compounded as the cycle progresses. While the removal of these compounds takes more time than nitrogen and phosphorus, WaterMix has the ability to break the bonds of these chemicals. Eliminating chemicals from the water that are currently put back into the environment or reused for other purposes.

Other benefits of using WaterMix in a wastewater treatment facility include reduced costs. Costs are reduced from the reduction of sludge that requires disposal. There is an example of the money we saved one of our customers in the next section under supporting information. Other benefits can be seen if people pour the WaterMix down their pipes. Fats that cling to the side of pipes leading to a wastewater treatment facility need to be serviced when there is a block. This is a gross job and unfortunately that has not been another way to rectify the issue. What pouring a small amount of WaterMix down the drain will accomplish is removing some of the fats that cling to the walls of pipes. Making the cleaning of blockages no longer as frequent. Beta oxidation is responsible for the elimination of fat.

Industrial waste has an opportunity to use a natural alternative to traditionally chemically treated discharge. Industrial process plants produce an array of chemicals when processing materials. The waste that is produced is either pre-treated prior to being sent to a wastewater facility or is stored in a waste designated area. These are harmful to the





environment. With WaterMix, the chemicals that are produced from these processes can be treated. The chemicals are rendered inert through the breaking of the bonds that holds the chemical together. The process is simple to remediate a waste pond, simply aerate and spray WaterMix at a starting ratio of 1 oz to 1200 gallons of water. The dose for this application may need to be as much as 1 oz to 500 gallons of water, depending on the concentration of contaminants. Also keep in mind for pH levels and circulation for this application, pH levels below 6 and above 8 have significantly reduced efficacy rates and will prolong the treatment process.

A great place to use WaterMix is on a farm that has animals. Lagoons are an environmental hazard and pose health risks in some locations. Particularly in North Carolina where lagoons are common, flooding and hurricanes occur often, and there is a close proximity to lagoons. The solution is simple, spray on the lagoon waste and ensure there is proper aeration. Pathogens, chemicals, hormones, blood, odor, and solid organic material will be eliminated or drastically reduced. Cutting back on the loading of the ponds and the necessity to worry about the environment. Again, a dose rate of 1 oz for every 1200 gallons of water should suffice but there is no overdoing the amount of product. The WaterMix is safe to discharge into the environment and will eliminate the problems associated with lagoons.

WaterMix also has the potential to generate additional revenue for farms that have an excess of organic waste. Typically, we suggest maintaining dissolved oxygen above 1 mg/L to maintain an aerobic environment. However, when it comes to lagoons, some farmers may want to generate methane from anaerobic digestion of waste. The process is not overly complicated, reduce oxygen levels in the lagoon, provide a means of capturing the methane that is released, then use or sell the methane as a source of energy. A topsoil and energy source will be produced at the end of the process for farmers to generate additional profit. The same principle can be used in smaller applications and may be an interest to self sufficiency enthusiasts looking for a new project and valuable byproducts from a hazardous material. This section is a simplified version of what occurs but provides the basis for the application possibility.

Another application of WaterMix is to create bodies of water with lower levels of dissolved solids. By binding to dissolved solids and settling to the bottom of a lake or pond, water clarity will be improved. Making your water feature or lake significantly more clear and more pleasant to look at. Without any use of chemicals.

Lastly, WaterMix can be used to create drinkable water. By eliminating heavy metals, pathogens, chemicals, and organic materials, WaterMix has the capability to purify unsafe



water. The standards for drinking water are more stringent and do require more monitoring. Large solids and dirt must also be removed by filters or gravity. Then in the final stage of processing, we would recommend treating the water with a UV light. This would be to ensure nothing is still living in the water that you are drinking. The use of WaterMix to create drinking water follows very strict guidelines and parameters and is not recommended for the typical user. If safe drinking water is the goal, ensure proper treatment and advice from trained, professional individuals.

Overall, WaterMix can be used to treat water for organic and inorganic materials. The typical dose rate is 1 oz per 1200 gallons of water but may need to be more or less depending upon contaminant concentrations. WaterMix does not work for treating salt in water or bactericides, such as high levels of chlorine. WaterMix is safe to use around fish and does not harm animals who ingest the water. Dissolved oxygen levels of more than 1 mg/L are required to maintain the safe, effective treatment of water. Excess oxygen levels are not an issue and are also recommended.

## WaterMix Labels and Supporting Information

WaterMix

# Natura Solve

Clean, balanced and renewed water & soil

## Overall Water Health & Balance

NaturaSolve.com

**SHAKE WELL • NO SUNLIGHT • NO FREEZING TEMPS**

<b>PHYSICAL FORM:</b>	Liquid	<b>APPEARANCE/DESCRIPTION:</b>	Liquid
<b>COLOR:</b>	Dark red to black	<b>ODOR:</b>	Mild sweet odor
<b>TASTE:</b>	Unknown	<b>PARTICULATE TYPE:</b>	Not relevant
<b>PARTICULATE SIZE:</b>	Not relevant	<b>VAPOR DENSITY:</b>	<1.0
<b>VAPOR PRESSURE:</b>	20 mm Hg	<b>pH:</b>	6.8
<b>SPECIFIC GRAVITY:</b>	1.12-9.4 lbs. per gallon	<b>MELTING/FREEZING POINT:</b>	Not relevant
<b>WATER SOLUBILITY:</b>	Infinite	<b>INITIAL BOILING POINT AND BOILING RANGE:</b>	212degree F
<b>FLASH POINT:</b>	None	<b>EVAPORATION RATE:</b>	Not relevant

**KID + PET + BEE SAFE**  
Use Within 5 Years of Opening

INGREDIENT	PELs	ACGIH	TLVs
Palm Oil	Not Listed	Not Listed	Not Listed
Soy Oil	Not Listed	Not Listed	Not Listed
Corn Oil	Not Listed	Not Listed	Not Listed
Sunflower Oil	Not Listed	Not Listed	Not Listed
Kelp	Not Listed	Not Listed	Not Listed
Molasses	Not Listed	Not Listed	Not Listed
Polysorbate 80	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed
Bacillus Bacteria	Not Listed	Not Listed	Not Listed



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## Pilot Program Results and Cost Savings For Dewatering, Sludge, Disposal Operations

Operation Category	Units	Existing Operations <sup>1</sup>	Average Operations from Test Program	Test Program Projected Optimum Operations
<b>Average Interval Sludge Removal</b>	Weeks	Daily <sup>2</sup>	Every 21 Weeks	Every 25 Weeks
<b>Sludge to Dewatering</b>	Gallons per Year	4,369,123	716,273	606,398
<b>Average Hours of Dewatering Operation</b>	Hours per Year	1,214	199	168
<b>Available Dewatering Capacity</b>	Hours per Year	0	1015	1,046
	% savings	0%	84%	86%
<b>Wet Tons of Sludge Cake Processed for Disposal</b>	Per Year	1,429	242	205
<b>Annual Average Dewatering and Sludge Disposal Operations Cost<sup>3, 4</sup></b>	\$	\$82,377	\$13,059	\$10,834
<b>Monthly Average Dewatering and Sludge Disposal Operations Cost<sup>3, 4</sup></b>	\$	\$6,865	\$1,088	\$903
<b>Estimated Average Monthly Dewatering and Sludge Disposal Cost Savings<sup>3</sup></b>	\$	Not Applicable	\$5,777	\$5,962
<b>Estimated Average Annual Dewatering and Sludge Disposal Cost Savings</b>	\$	Not Applicable	\$69,318	\$71,543

<sup>1</sup>Operating information provided by a confidential customer.

## External References

The research papers and links provided in this section are to help garner your confidence in our approach. The list provided is not a comprehensive gathering of the research that is available on the topic. The researchers in this section are from across the globe and form a community working towards the improvement of our planet through sustainable, environmentally friendly means.

## References and Resources

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