



WATER SOLUTIONS 2

PRESENTED BY:



SUSTAIN
ORANGE COUNTY

AUGUST 29, 2017



OriginClear Your Water!

Treating for the Micro-Toxins in
Drinkable Water

A horizontal graphic of a water splash with bubbles, spanning the width of the page.

A leading provider of water treatment solutions.

Safe Harbor Statement



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Who We Are



- A technology company in water.
- Founded ten years ago.
- Publicly trading on OTC as “OCLN”.
- Our technology has wide application, so business model is licensing and joint ventures.
- Focusing on early adopters, to shorten the adoption process.
- Electro Water Separation™: an award-winning, patented system, developed entirely in-house.

Electro Water Separation™



- EWS is a two-stage process.
- Uses electrical reactions in real time (no settling or chemicals).
- Effectively clears up very dirty, very oily water.
- Thoroughly proven in the field.

Parameter (ppm)	OriginClear Influent	OriginClear Effluent	Removal (%)
Biological Oxygen Demand	20	5.9	71%
Chemical Oxygen Demand	530	41	92%
Total Recoverable Petroleum Hydrocarbons (HEM)	142	Non-detect	Complete
Total Suspended Solids	100	3	97%

Table 1: Water quality data generated by Zalco Laboratories, Sampled on February 18th 2015

2015 field test on East Bakersfield Produced water

EWS Architecture

- First Stage:
 - Single Step Extraction™ (SSE)
 - Length of tubes is key to real-time operation
 - Proprietary design of anode nested inside cathode.
 - Choice of donating or non-donating modes.



First Stage: contaminated water travels through a series of electrically-charged tubes.

EWS Architecture

- Second Stage:
 - Concentrated material is drawn into flotation tank.
 - Hydrolysis causes micro-bubble cloud.
 - Material pushed to surface for removal.
- The entire process is continuous, therefore scalable.



Second Stage: Electro-Flotation tank with anode-cathode array at bottom.

2017: Where We Stand



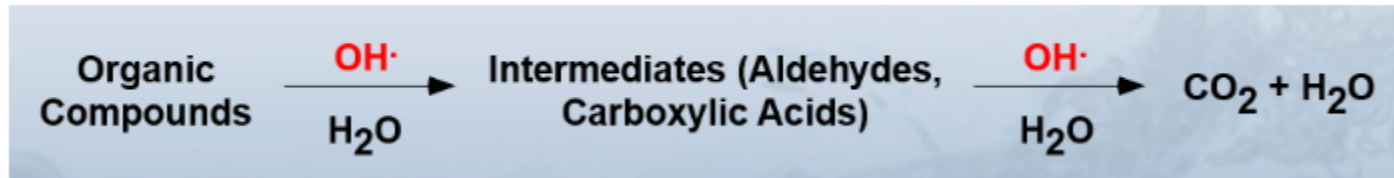
- Now entering commercial scale around the world with licensees and joint venture partners.
- Acquiring profitable companies in the water treatment industry to build manufacturing and distribution capabilities.
- In 2016, developed a next-gen Advanced Oxidation Process, AOx™.
- Now rolling out AOx to the “clean water” market.

The Micro-Toxin Crisis

- Cities don't remove many micro-toxins: pesticides, hormones, drugs, industrial solvents, bacteria and viruses.
 - Endocrine Disruptor Chemicals (EDCs) are a major contributor to health problems in industrialized nations.
 - Examples:
 - Estrogen which “feminizes” men.
 - Pesticides and herbicides a major EDC. (e.g. Roundup/glyphosate)
- Even 20+% of bottled water has elevated toxic levels ([NRDC](#)).
- Irrigation water contamination → food chain.

What Is The Solution?

- Cities typically use chlorine: relatively ineffective, creates toxic byproducts.
- Advanced Oxidation Process (AOP) is the modern solution:



Hydroxyl Radical ($\text{OH}\cdot$) is strongest oxidant used in water treatment

Hydroxyl Radical is non-selective and reacts fast with many compounds

Source: [APT Water](#)

What Can AOP Do?

- Transform toxic organic compounds (e.g. drugs, pesticides, endocrine disruptors etc.) into biodegradable substances.
- Successfully deactivates bacteria, viruses etc.
- Can be adapted to remove inorganic metals.
- Even arsenic removal is possible!

Source: [SSWM: Advanced Oxidation Processes](#)

OriginClear's Next-Gen AOP



- Patent filed March 2016 for Advanced Oxidation.
 - Additional patents & trade secrets.
- This is the next-generation OriginClear AOx™ process.
- AOx uses electro-catalysis to degrade toxic compounds.
- It's like the catalytic converter in your car: the reactive elements do the work without themselves degrading.

AOx is the low-maintenance, energy-efficient, real-time way to remove micro-toxins from drinkable water.

AOx Architecture

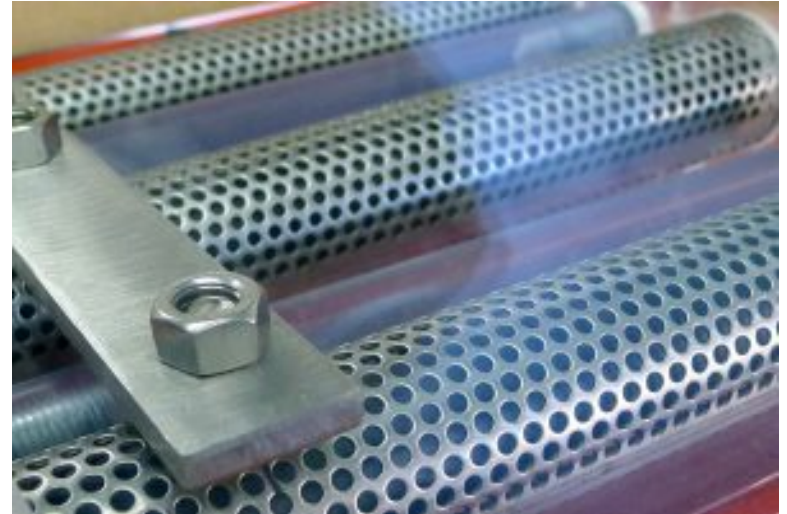
- Inherits two-stage architecture from Electro Water Separation.
- Stage 1: Direct Oxidation (DO).
 - Water travels through a long series of tubes, bathed in continuous electrical field.



In-line electrodes used in Direct Oxidation

AOx Architecture (cont'd)

- Stage 2: Indirect Oxidation (IO).
 - Water comes out of tubes into tank with electrodes in a mesh configuration lining the bottom of the tank, creating gaseous cloud in the water.
 - These stages can be run separately or in combination.



Mesh electrodes used for Indirect Oxidation

New Company Strategy

- Licensing and joint ventures continue for industrial water treatment. *Most recent territory: India.*
- Continuing to acquire profitable water companies. *Currently in discussions with three promising candidates.*
- Now entering new category consumers really care about:
 - the toxins left in drinking water, often after filter treatment.

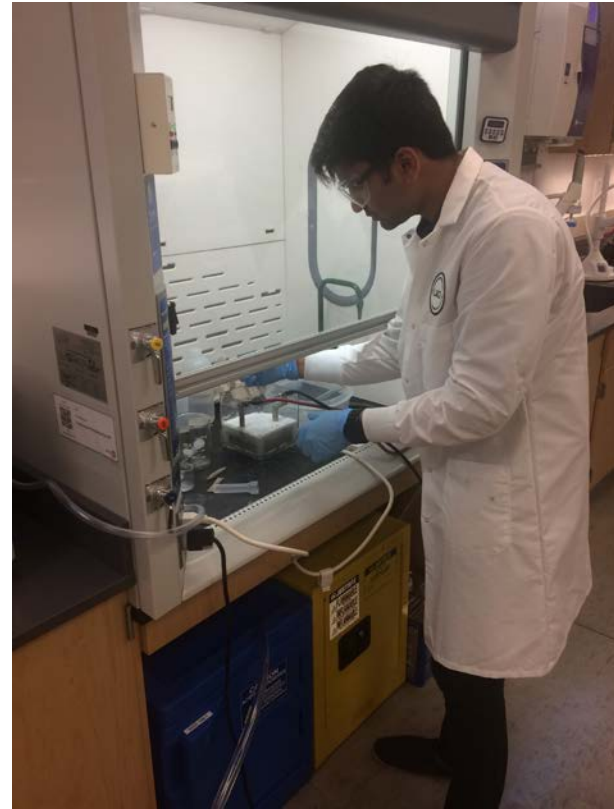
We can affect human (and animal)
health for the better.

Introducing...

The Micro-Toxin Program

Timetable I

- Phase One: prove the technology.
 - First results demonstrate up to 99.3% transformation of Roundup (glyphosate).
 - Already generating new patent applications and trade secrets.
 - Continuing to test for variety of micro-toxins.



Clear

Testing at Advanced Prototyping Center,
LA Cleantech Incubator

Timetable II

- Phase 2: Proof of Concept.
 - Engineering.
 - Pilot scale system.
 - Certifications.
- We have the knowhow:
 - Previous pilots done in oil and gas water cleanup.
 - Planning to add domain-expert engineering firm.



An OriginClear pilot system in oil and gas application.

Timetable III

- Phase Three:
 - Business development networking for early adopter interested in the “treated for micro-toxins” advantage.
 - Bottling company?
 - Best for present technology scale.
 - Launch with early adopter to prove concept in market.

The Future

- Potential future licensee applications:
 - Integrated with home filter/reverse osmosis systems.
 - Municipal water treatment.
 - Irrigation water.
 - Pool/hot tub?

Stay In Touch!



- We believe that Advanced Oxidation can make a major difference in making water healthy.
- Join our team: subscribe to announcements and updates!
 - <http://www.originclear.com/subscribe>

Our Management Team



Riggs Eckelberry

Founding Chairman
and CEO

Multiple dotcom exits including Yellowpages.com in 2004. Prepped CyberDefender for NASDAQ IPO mid 2000s.

Jean-Louis Kindler

President, OriginClear
Technologies

Co-founder of OC joint venture Ennesys. CEO MHS Equipment (42 M€, 360 employees in 2008)

Bill Charneski

President, OriginClear
Group

15 years Dow Chemical in management, sales; acquisition and innovation track record.

Marc Stevens

President, Progressive
Water Treatment

Over 15 years, built PWT into solid water player with outstanding reputation.



Thank You!