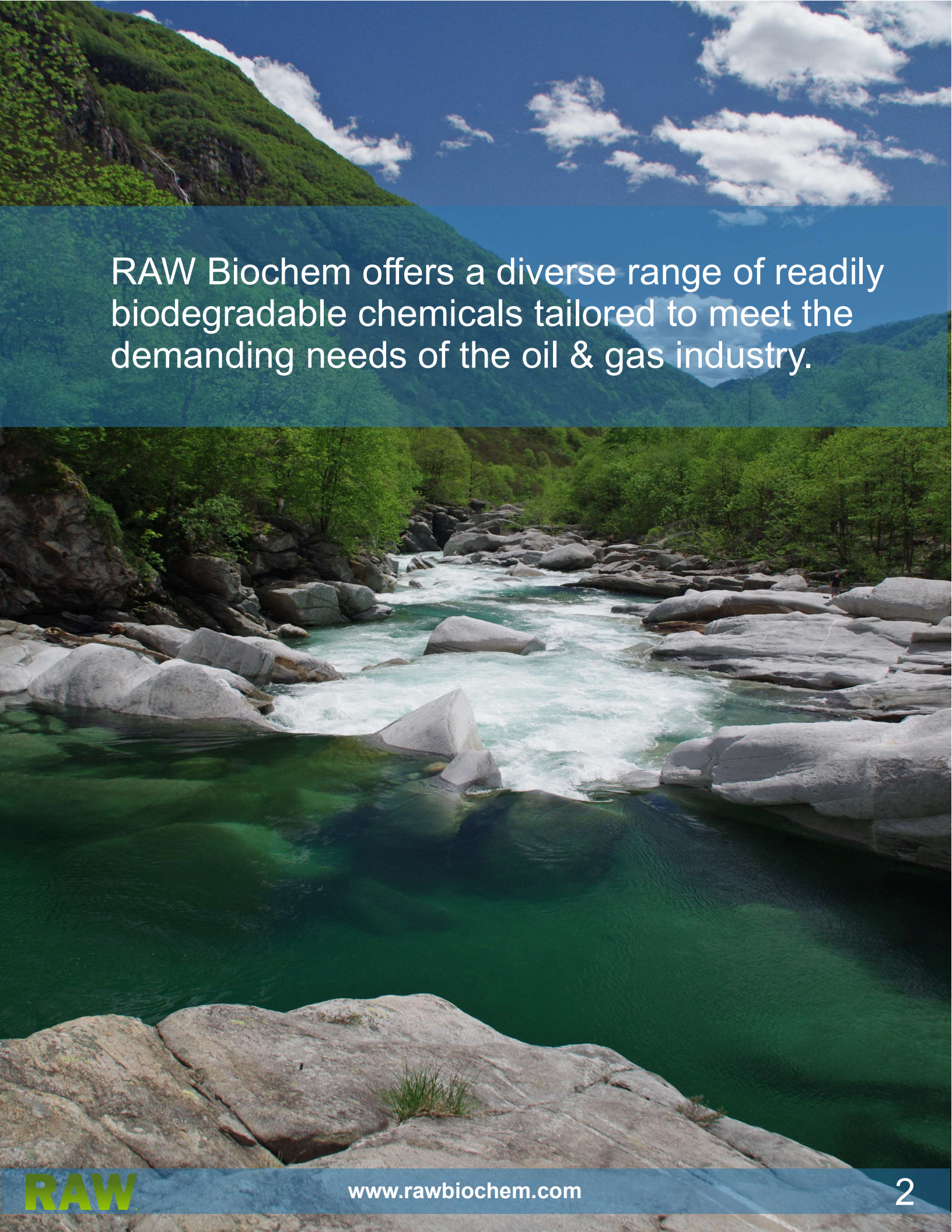


Enhanced Oil Recovery

RAW BIOCHEM



RAW Biochem offers a diverse range of readily biodegradable chemicals tailored to meet the demanding needs of the oil & gas industry.



Lower Lift Costs & Increased Productivity

A demonstrably superior Enhanced Oil Recovery program!

Our game-changing nano-technology formulations incorporate readily biodegradable acids, solvents and surfactants in single dose concentrations which create an unsurpassed ability to extend well maintenance cycles far past conventional petrochemical treatments while concurrently clearing arterial pathways and unlocking the full reservoir potential.

With more than \$1 trillion of potentially recoverable oil sitting in mature fields around the world, the hunt to find affordable solutions that will unlock these reserves is a time-consuming & demanding task.

RAW's process eliminates any guesswork and gives you the "peace of mind" in knowing that you have made the right decision.

Our well program will:

- maximize your ROI, and;
- reduce lift costs

Contact us to learn more!



"Amazing Results!"

RAW's EOR strategy seamlessly integrates into typical well maintenance programs with minimal down-time or lost production. Standard equipment & practices easily allow well dosing with minimal interruptions or additional costs.

“PROCESS”

#1 RAW's team:

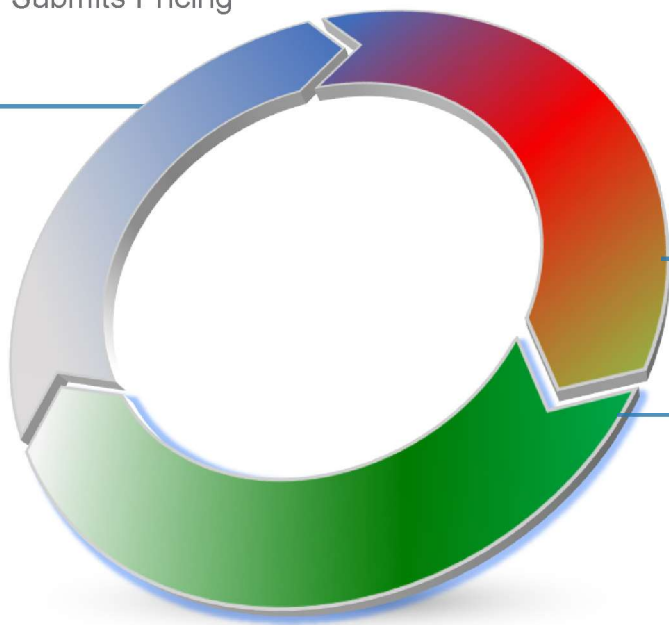
- Reviews Well Log
- Proposes Action Plan
- Submits Pricing

#2 At Well Site:

- All site work by client
- Requires hot oiler & clean produced or 2% saline water
- Well circulated internally 36-48 hours
- Well brought back into production

#3 Post Treatment:

- RAW's team monitors production data
- Makes recommendations on additional treatment programs



**“Standard Procedures,
Standard Equipment”**

Entropic reaction allows monomers in fluids tremendous mobility and motivity. Brownian motion allows micelle to reach far into the formation to address blockades at or near well bore while also cleaning arterial pathways between the well bore and formation.

A “Different” EOR!

01

Enhanced Interfacial Surface Area

90% of micelles are <5 nm. This creates an enhanced interfacial surface area and allows materials causing blockages to be dispersed and contained within the water matrix.

02

No Secondary Damage

Unlike conventional solvents, RAW's product solutions cause no secondary damage to the well, the reservoir, hydrocarbons or upstream infrastructure.

03

Non-Reactive Chemistry

Our unique formulation combines surfactants, solvents and acids concurrently, thereby addressing the inconsistencies of conventional surfactant-only, solvent-only or acid-only treatments.

04

Restores pH Balance

RAW's treatment restores pH balance to the well. A pH imbalance contributes to formation damage, sours crude and leads to more favourable conditions for rapid re-deposition of waxes.

***Product strength and efficacy is only part of the story!
HR and Environmental budgets will thank you too.***

RAW Products are:

- Non-toxic
- Non-flammable
- Contain No VOC's
- Non-corrosive
- Non-caustic
- Non-hazardous
- Non-comedogenic

HR & Environmental Benefits

Using RAW products will improve your HR budget!

The extraordinarily low hazard rating will reduce or eliminate:

- Worker liability premiums
- Personal Protective Equipment
- Sick days & time off from injuries
- Handling, transportation and storage costs

These chemicals will:

- Extend equipment duty cycles
- Reduce parts replacement
- Reduce equipment down-time



If remediation budgets are at the tipping point, RAW will help!

The readily biodegradable status carried by all RAW products allow them to biodegrade to their natural state within 28 days when exposed to sunlight, water and microbial activity.

- Environmental budgets are reduced
- Transportation costs are lessened
- GHG emission reductions
- Discharge fees are minimized
- On-site hazard safety measures are mitigated



THE SCIENCE

At RAW, we are using nature's ingredients to solve problems. It's called *"Bio-utilization"*!

All formulations are made from oils and alcohols derived from domestically grown and sustainable farming practices.

RAW products are created using state-of-the-art nano-technology formulated colloidal solutions.

Active ingredients in all of our formulations are sized from 1 - 5 nanometers and are only visible under an electron microscope. When water is added as the catalyst, the micelle repel each other like opposing magnets while attracting solid particles and breaking down hydrocarbon bonds into smaller molecules and/or atoms.

This action of a single micelle is multiplied by billions of other micelles, resulting in a process by which the molecules emulsify.

This allows them to penetrate highly viscous and sticky materials, lifting them from the surface to which they adhere.

These nano-sized emulsions offer inherent advantages over conventional chemicals in reduced application rates, more rapid and reliable activation and extended long-term affect.

Once solid particles are adhered to the micelle, they remain in suspension indefinitely thereby preventing re-soiling. The wash-off is bio-degraded and become soil constituents such as nitrates, dissolved oxygen, carbon dioxide, biomass and water.

"Nature's Chemistry"

Great Benefits

1

Bottom Line: Competitively priced RAW products perform at superior levels and add bottom line value to your operations.

2

Worker Safety: The RAW Biochem advantage includes fewer days lost from health and safety issues when using our **SAFE** chemicals.

3

The Environment: Our products meet or exceed all of the guidelines and regulations for environmental safety through "**Green**" ingredient formulations.

4

Peace of Mind: No more worrying about the trade-off between budgets, the environmental consequences or the impact on your health and safety program with RAW products.

5

Custom Solutions: New products are constantly being introduced. Can't find what you are looking for? Ask us. If we don't already have the answer you are looking for, we will create one.

RAW BioCHEM

www.rawbiochem.com