

NewZorb™

A better way to manage oily waste



- Reduce liability
- Reduce volume
- Save money



Newpark Environmental Services



A better way to

Newpark Environmental Services has a better, more efficient solution for managing oily waste.

NewZorb™ is a superior, high performance absorbent that allows you to reduce and more efficiently manage stabilized waste volumes, control trucking costs and liability. Here's how:

Consistent quality

NewZorb comes in easy-to-manage, waterproof bulk totes. It has no moisture content and a homogenous consistency, eliminating the inconsistency that comes with wood fibre. Also, NewZorb can virtually eliminate leaching.

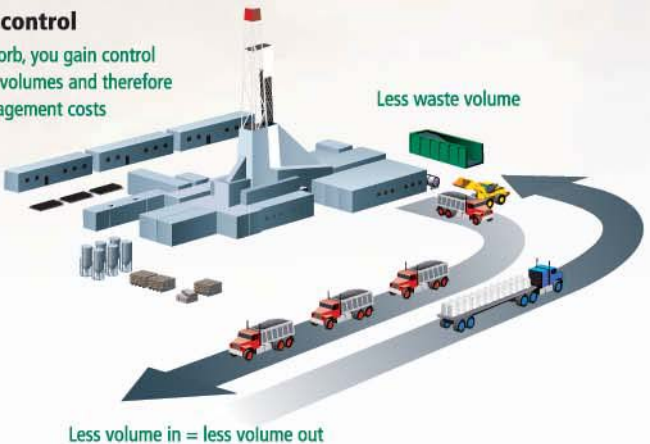
Reduced waste

With NewZorb, oily cuttings require the addition of only 3% to 5% by weight for proper stabilization. Compare that to wood fibre, which typically adds 30% to 50%. Less bulk means fewer trips to the landfill and reduced disposal charges.



Volume control

With NewZorb, you gain control over waste volumes and therefore waste management costs



manage oily waste

Increased density

One tote of NewZorb stabilizes 9 to 10 tonnes of oily cuttings, maintaining an overall density above $1,700 \text{ kg/m}^3$. Wood fibre, on the other hand, achieves an overall density around $1,200 \text{ kg/m}^3$. With NewZorb you get full loads by weight and no minimum load charges.

Reduced cost

By significantly reducing the volume of oily waste, NewZorb leads to cost savings in trucking as well as disposal charges. Depending on how remote the well site is, transportation savings alone can be significant.

Reduced liability

Reduced waste volume is an important goal for operators wanting to reduce their liability, both in transportation and long-term waste storage in a Class II landfill.



Reduce waste volumes
with easy-to-use NewZorb





Do the math

Every well site is different. Some are close to lumber mills and landfill sites, others are quite remote. But every one has the potential to benefit from NewZorb. Pencil it out for yourself.

First, answer these questions:

1. What volume of solid waste is produced from a well during drilling?
2. How many actual tonnes of oily waste were handled and disposed from that location?

With these numbers in mind, roughly calculate how much NewZorb can reduce waste volume.

For example: say a well generates 400 tonnes of oily cuttings. With wood fibre, that can balloon to 520 to 600 tonnes of Class II landfill waste leaving the site. NewZorb would reduce that to 412 to 420 tonnes. Using the maximum possible volumes in this example, plus average trucking and tipping costs, here's how this example pencils out.

	Wood Fibre (600 tonnes)	NewZorb (420 tonnes)	Savings with NewZorb
Trucking (\$50/T)	\$30,000	\$21,000	\$9,000
Tipping (\$26/T)	\$15,600	\$10,920	\$4,680
TOTAL	\$45,600	\$31,920	\$13,680 (30%)

For a complete analysis, contact your Newpark sales representative.

Wood fibre and landfill



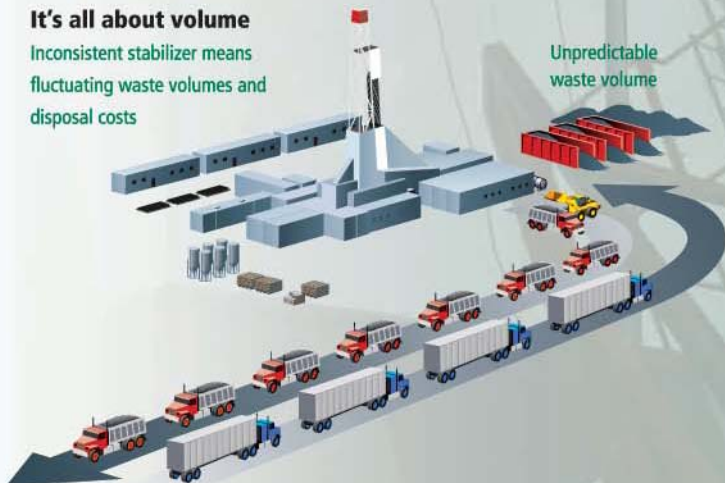
Until now, the most common method of disposing of oily waste produced by hydrocarbon-based drilling systems was to mix it with wood fibre and truck it to a Class II landfill. However, disposal costs constantly fluctuate because wood fibre presents waste managers with three main challenges:

- **Inconsistent quality** – everything from wet hog fuel to chunks of 2x4 can be in a shipment, and you won't know what you have until the truck dumps on your site. It also means you may have to order 4 truckloads or 10, depending on what the area has to offer.
- **More waste** – every tonne of wood fibre brought onto your site adds to the total tonnage that must be hauled away. More waste means more trucks on the road and more volume in landfill, both of which can increase liability and cost.
- **Low density** – wood waste has a low density, so trucks can be full volumetrically, but do not meet minimum gross tares. This means operators pay extra to remove waste.

It's all about volume

Inconsistent stabilizer means fluctuating waste volumes and disposal costs

Unpredictable waste volume



More volume in = more volume out



For solutions that work

At Newpark Environmental Services, our focus is on innovative ideas and sustainable solutions for the oil and gas industry. Our commitment to R&D and the discovery of breakthrough technologies, like NewZorb, will help the industry better manage environmental issues as they arise.

We can say it's better, only you can prove it.

"Compared to stabilizing with wood chips or sawdust, NewZorb significantly reduced the volume of material being hauled to landfills. It also has a significant upside when composting oil contaminated cuttings in that NewZorb maximizes oil absorption and reduces overall compost volume, thus reducing handling and maintenance costs, as well as cuttings storage space required on the lease."

Chris Schulze

Senior Logistics Supervisor, Drilling
Petro-Canada

"NewZorb provides a viable alternative to sawdust in areas where supplies are hard to come by. When managed properly, NewZorb contributes to a noticeable reduction in tonnage to landfill."

Ana Djuric, B.Sc.

Drilling Waste Management Coordinator
Anadarko Canada Corp.



**For more information on NewZorb,
please contact us.**



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