

<b>DOCKETED</b>	
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*Comment Received From: Cathleen Pryor  
Submitted On: 11/13/2024  
Docket Number: 24-OPT-02*

**Lithium creates hazardous waste after firefighters spray the area with water**

*Additional submitted attachment is included below.*

*Comment Received From: Cathleen Pryor  
Submitted On: 11/12/2024  
Docket Number: 24-OPT-02*

## **Lithium creates hazardous waste after firefighters spray the area with water**

Currently, firefighters douse adjacent containers of lithium batteries with water to keep those cool and prevent thermal runaway in those containers. But by dousing the inflamed container with water, the waste water will most likely have lithium and other hazardous chemicals which will seep into the concrete and into the ground and any groundwater below the concrete pads. Even if they plan to create a pool of the wastewater, they cannot prevent the wastewater from being absorbed by the concrete underneath the container, nearby, or on its way to a collection pool. The concrete acts as a sieve and contaminates the soil and possibly groundwater underneath the concrete pad. There is a stream nearby which is expanding and could conceivably capture hazardous chemicals and transport those to Doheny Harbor just 5 miles away. This is just the wrong location for a BESS.

(I copied the below from Google so it is word searchable.)

### AI Overview

[Learn more](#)

Yes, concrete is porous:

#### What it is

Concrete is a composite material made from a mixture of water, sand, gravel or stone, and cement. It's the second most-used material in the world, after water.

#### How it's porous

Concrete is full of tiny holes that allow water to pass through. The pores are much larger than water molecules, so water vapor and soil gases can easily move through.

#### What happens when concrete gets wet

When concrete gets wet, the water breaks through the pores and the wet pores pull in more water from the ground. This can lead to cracking and structural damage.

#### How to waterproof concrete

There are ways to make concrete waterproof or water-resistant. For example, you can use a penetrating concrete sealer to protect against water vapor and gases.

#### How porosity affects flooring

The porosity of concrete can affect how flooring adhesives, sealers, primers, and underlayment work. Adhesives, sealers, and primers take longer to dry on non-porous surfaces.

Is Concrete Waterproof? | Is Concrete Porous or Nonporous?

Oct 23, 2020 While you might see rain pool up on top of your concrete driveway, that doesn't mean it's waterproof. Far from it, in ...

Dynamic Concrete Pumping

Explained: Cement vs. concrete their differences, and opportunities ...

Apr 3, 2020 There's a lot the average person doesn't know about concrete. For example, it's porous; it's the world's most-used mate...

MIT News

Water In Basement Slowly Destroys Porous Concrete and Bricks

Inside Concrete Is Porous ... The pores are orders of magnitude larger than a water molecule. Water vapor and soil g...

RadonSeal

Show all

Generative AI is experimental.

Most people do not realize that concrete is porous more porous than Swiss cheese!

The pores constitute 18% or more of the concrete but they are invisible, much smaller than the diameter of human hair. After new concrete is poured, almost half of the water has to evaporate.