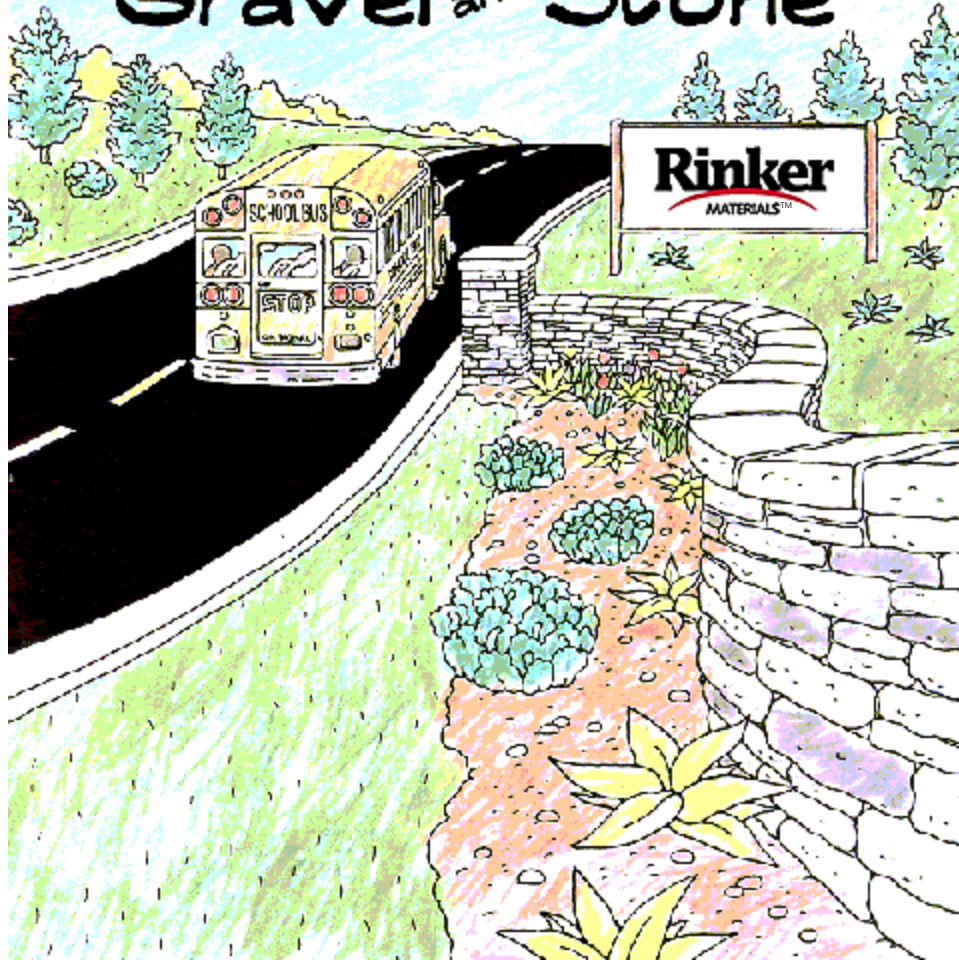


Learning About Mining Sand, Gravel and Stone



A Note to Teachers and Parents...

We are providing your students and children this coloring book as part of Rinker Materials commitment to supporting education in the communities in which we operate. We intend it to be fun as well as informative for the children.

Almost anywhere you go, you are in contact with products from the aggregate mining industry. Limestone aggregate as well as sand and gravel products come into our lives daily.

The aggregates industry produces in excess of two billion tons of sand, gravel, and crushed stone products annually. That is approximately eight tons per year for every man, woman, and child in the United States.

The vast majority of the industry's products are used in the construction and maintenance of the nation's infrastructure, including highways, airports, bridges, and waterways.

Construction aggregate products are also used to build homes, schools, hospitals, and shopping malls. In addition, other important uses include products to control sulfur emissions from coal-fired power plants and products used to sustain our agricultural productivity.

The aggregates industry produces value. Stop and think about it. With so much demand for aggregate products, among other mined minerals, the price per ton paid by consumers is the lowest. The low price is due in part to the aggregate producer's ability to locate operations close to the people who need the materials to build houses, schools, highways, and factories.

As you can see, we all share the same community in many ways. Rinker Materials practices community and environmental care as a matter of common sense and respect for our neighbors.

We hope the children and you enjoy coloring the pages in this book and perhaps learning a little more about our work.

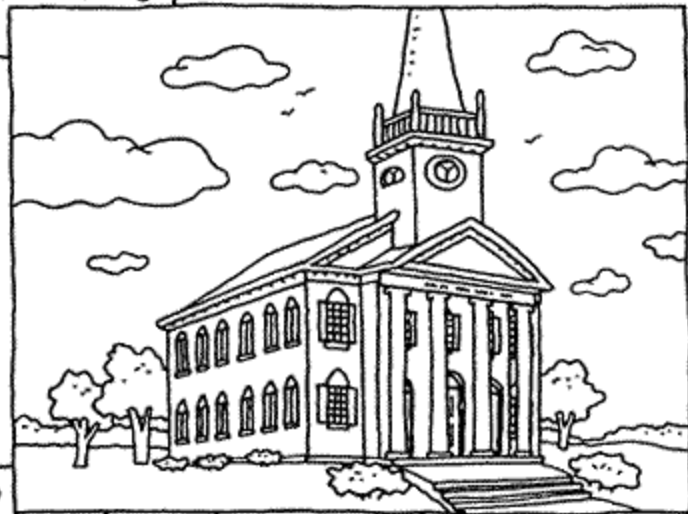
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School



Church

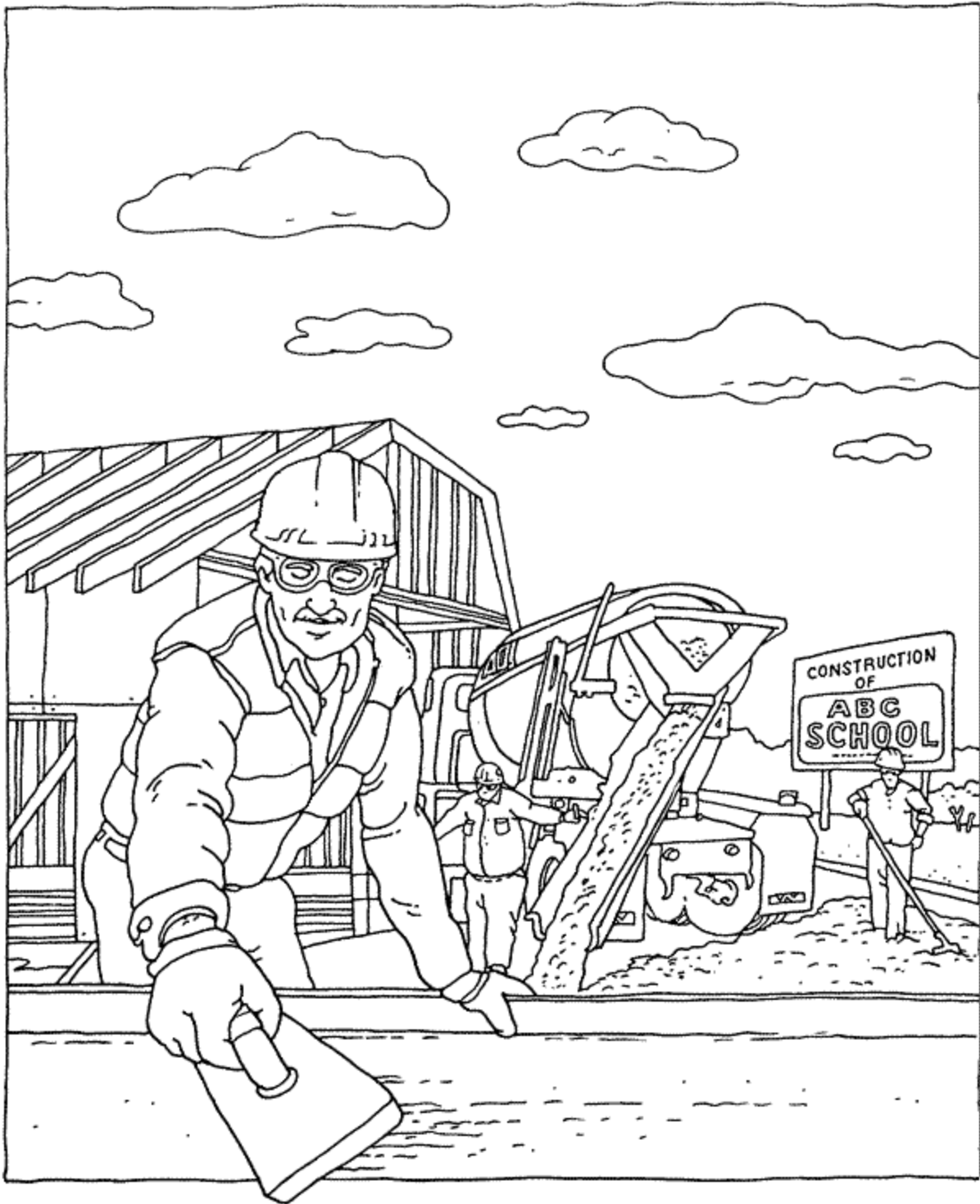


Home

These buildings are made with the same things.
Do you know what they are?



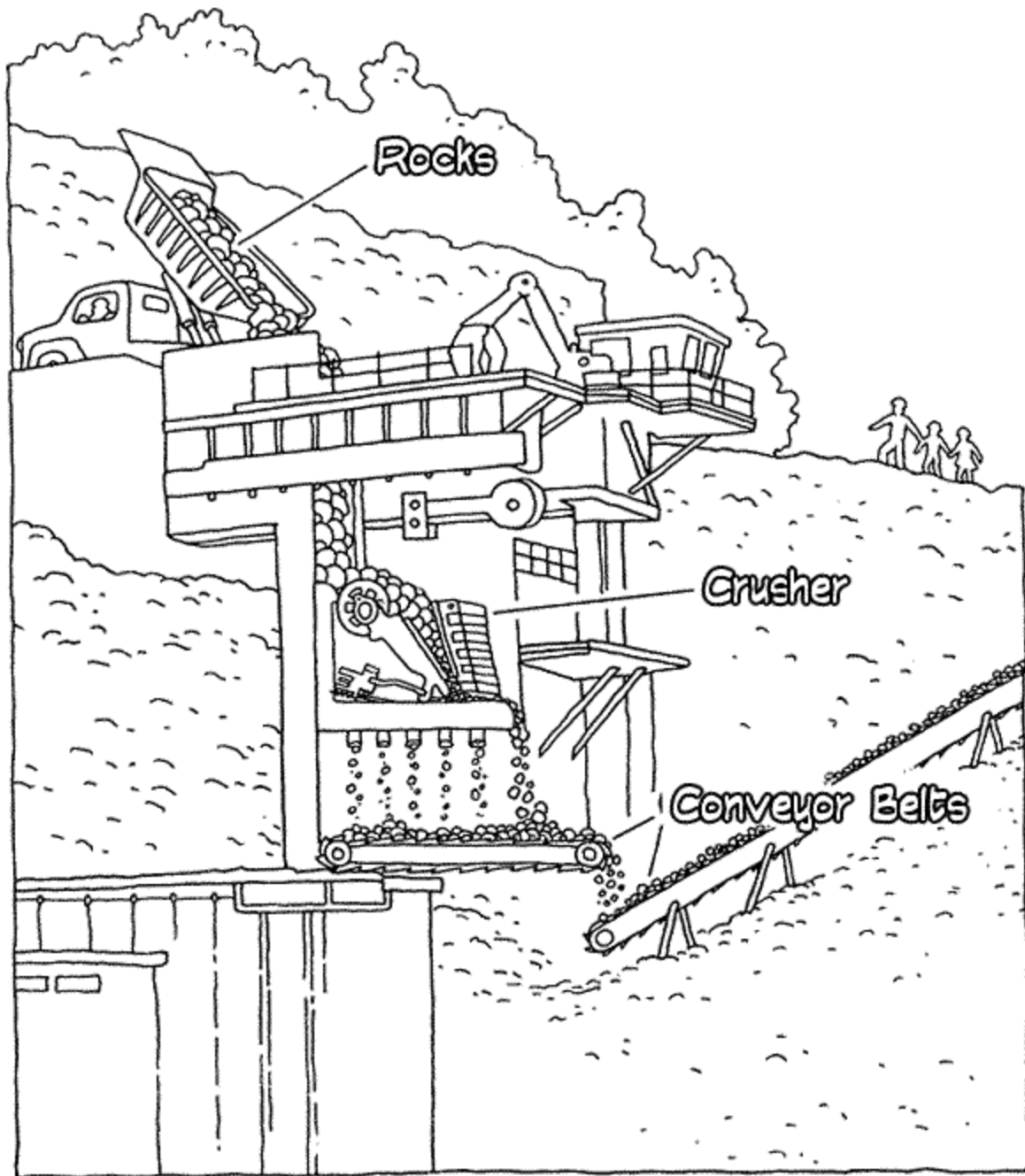
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They are all made with sand, gravel, and stone. Together, these are called **aggregates**. Where do we get aggregates to make buildings?

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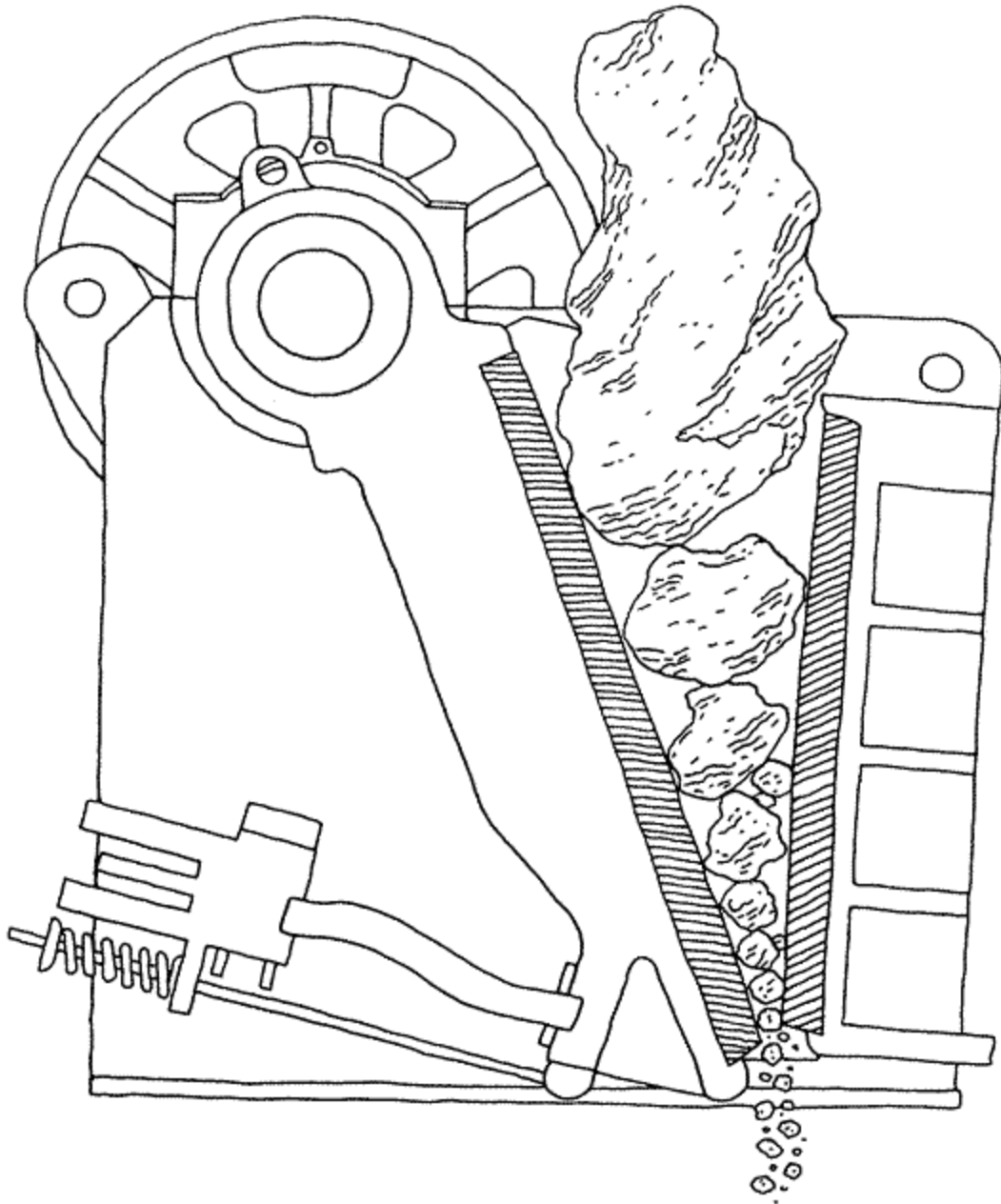


Aggregates come from the earth. It takes hard work to mine sand, gravel, and stone from the earth. People and machines, such as crushers and conveyors, help mine aggregate.



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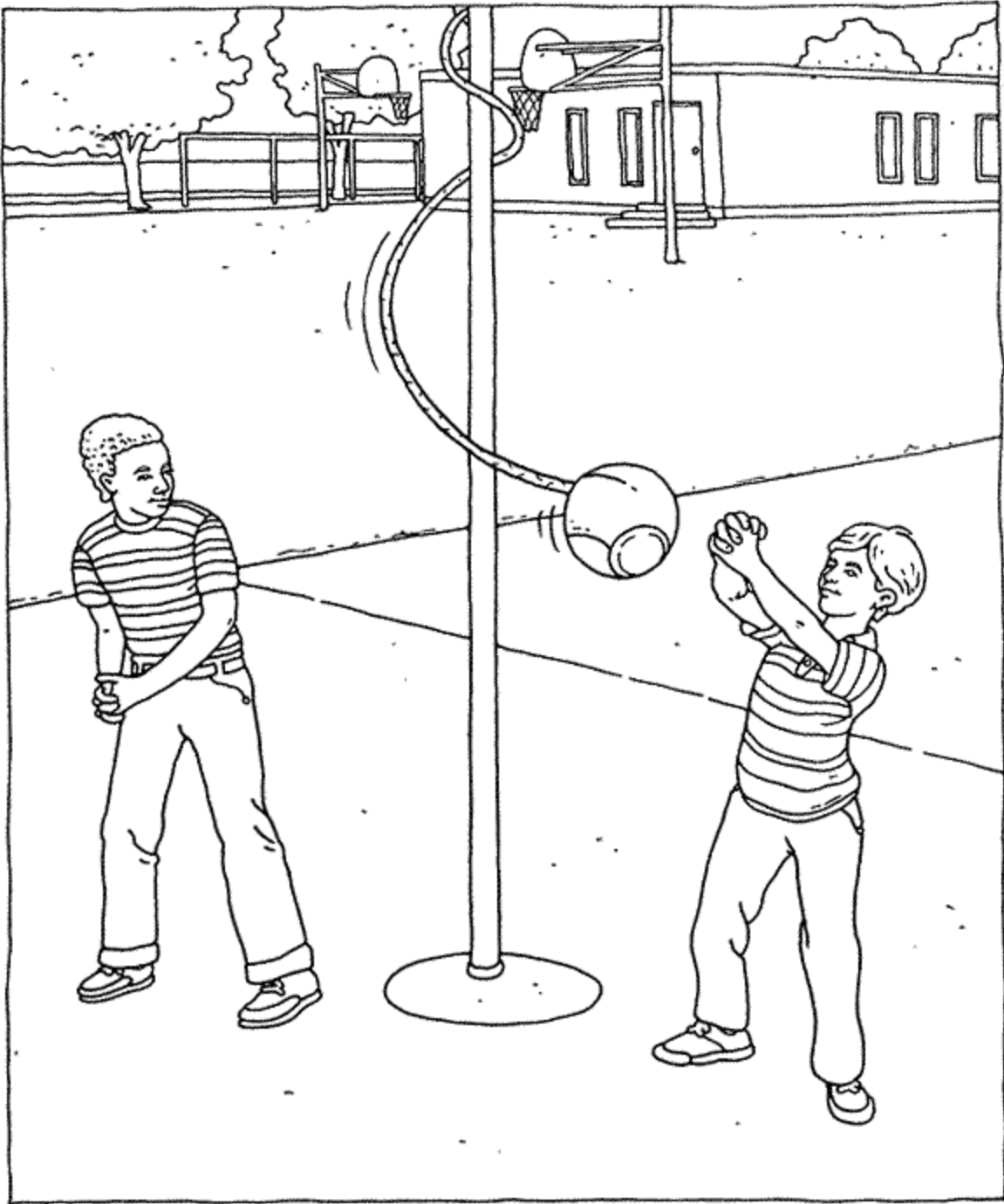
Jaw Crusher



Rocks can be crushed into many sizes of aggregate. This crusher works like a jaw by crushing larger rocks into smaller ones. It is called a jaw crusher.

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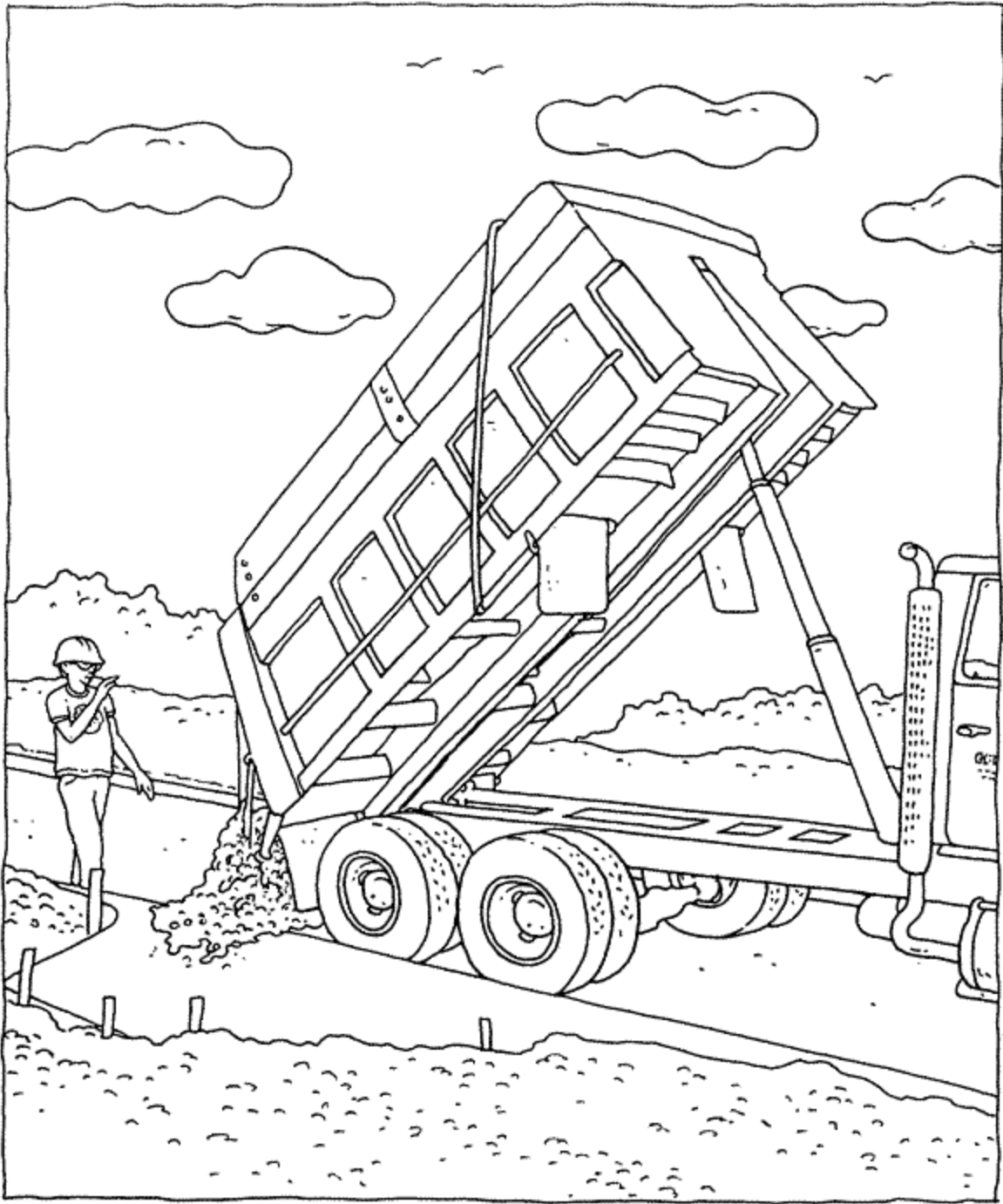
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Some playgrounds are covered with asphalt, which is sometimes called blacktop. Asphalt is made mostly of aggregate material. It is held together by other materials.

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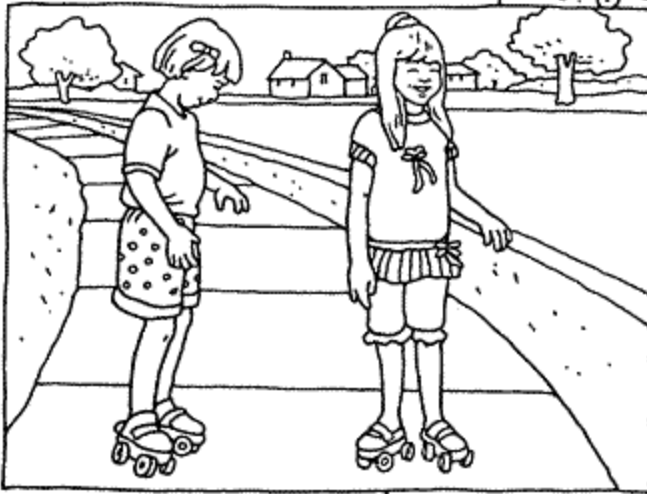
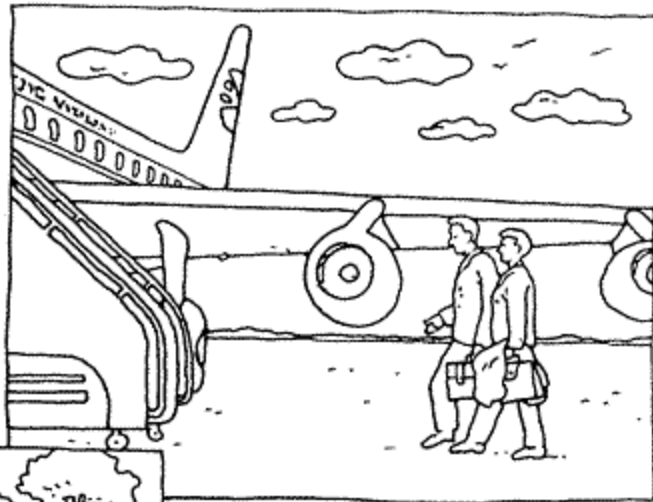


Aggregates are used to make the roads the school bus drives on. The dump truck brings aggregates from the quarry.

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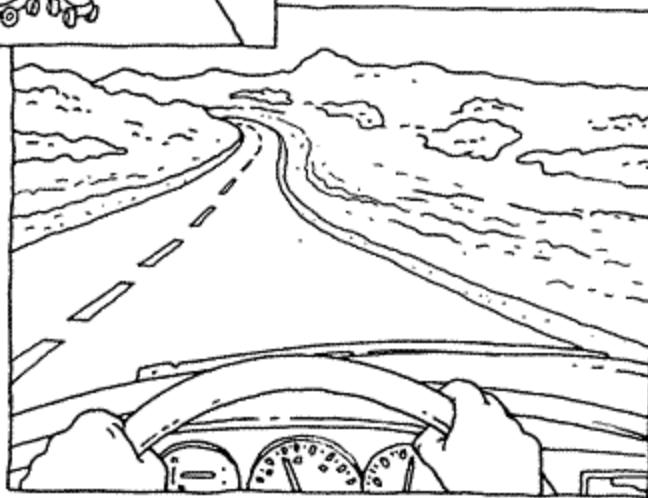
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Airport
Runway



Sidewalk

Highway



Concrete and asphalt are building materials that are made of a mixture of aggregates. They are used to make things we see every day.

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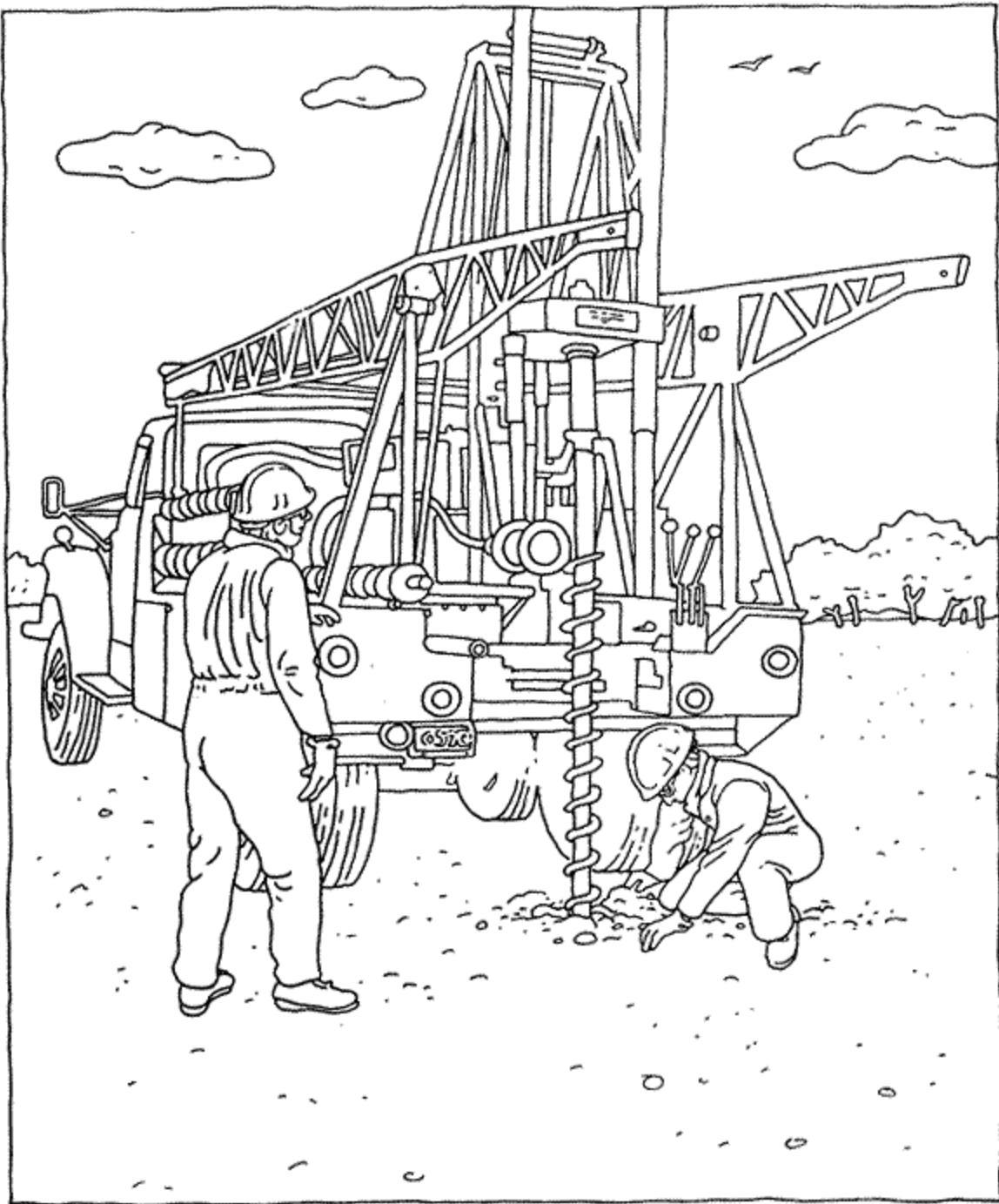
The Earth



Let's look at how aggregate materials are mined from the earth.



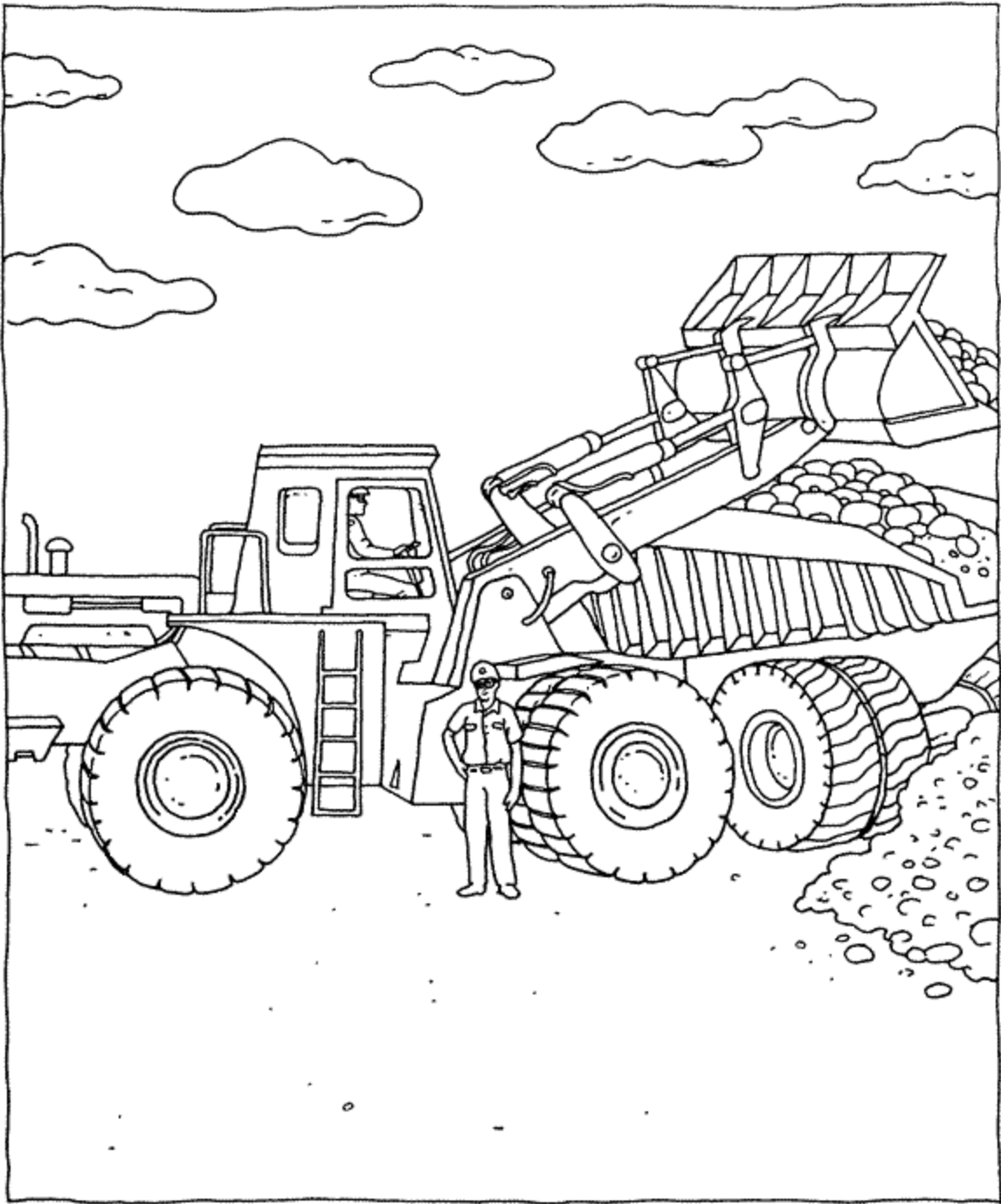
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First, a scientist locates large sources of aggregate in the earth with a big drill. These sources are called reserves. A scientist who does this is called a geologist.



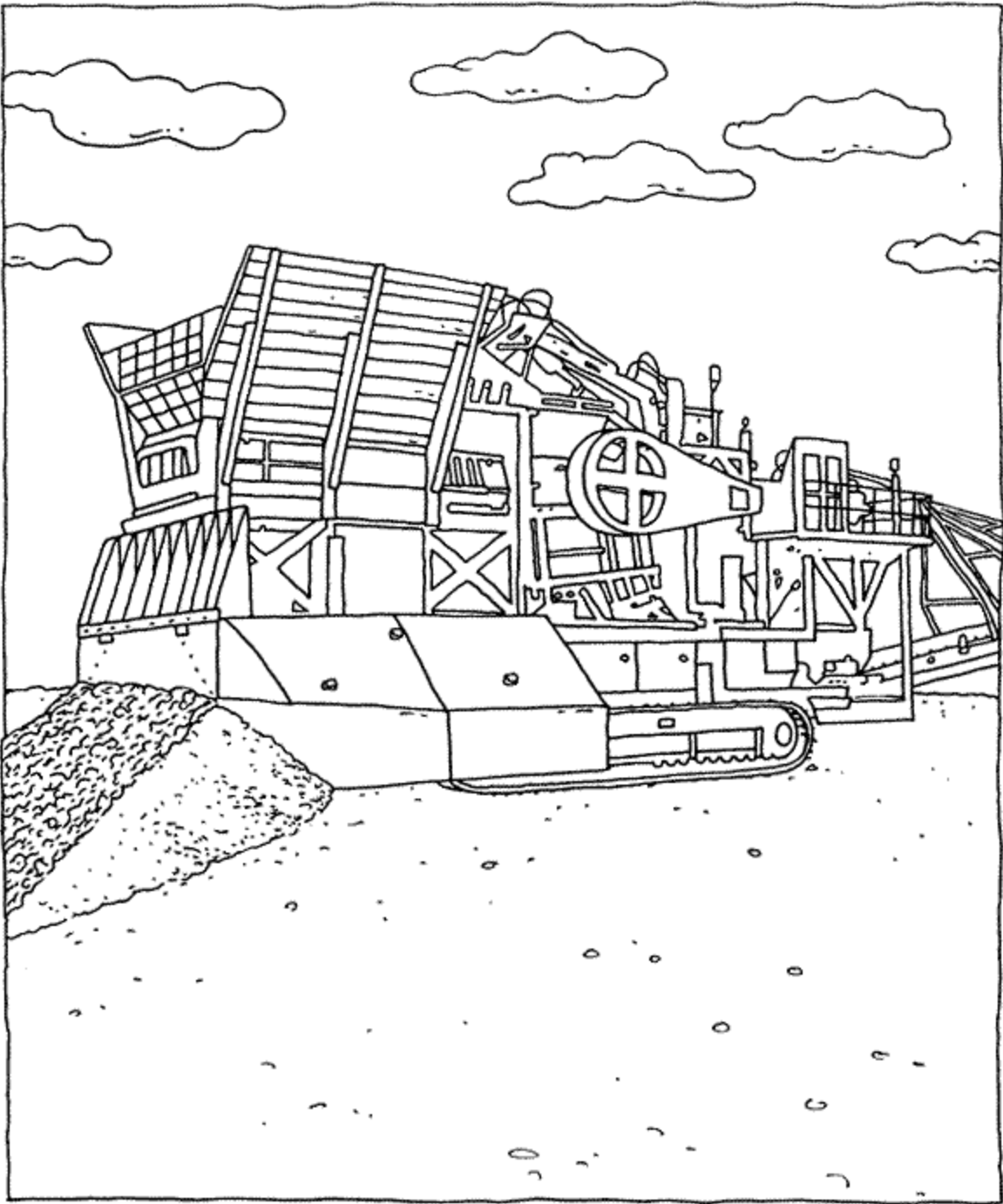
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Then the workers use big machines, such as this front-end loader, to excavate the materials.



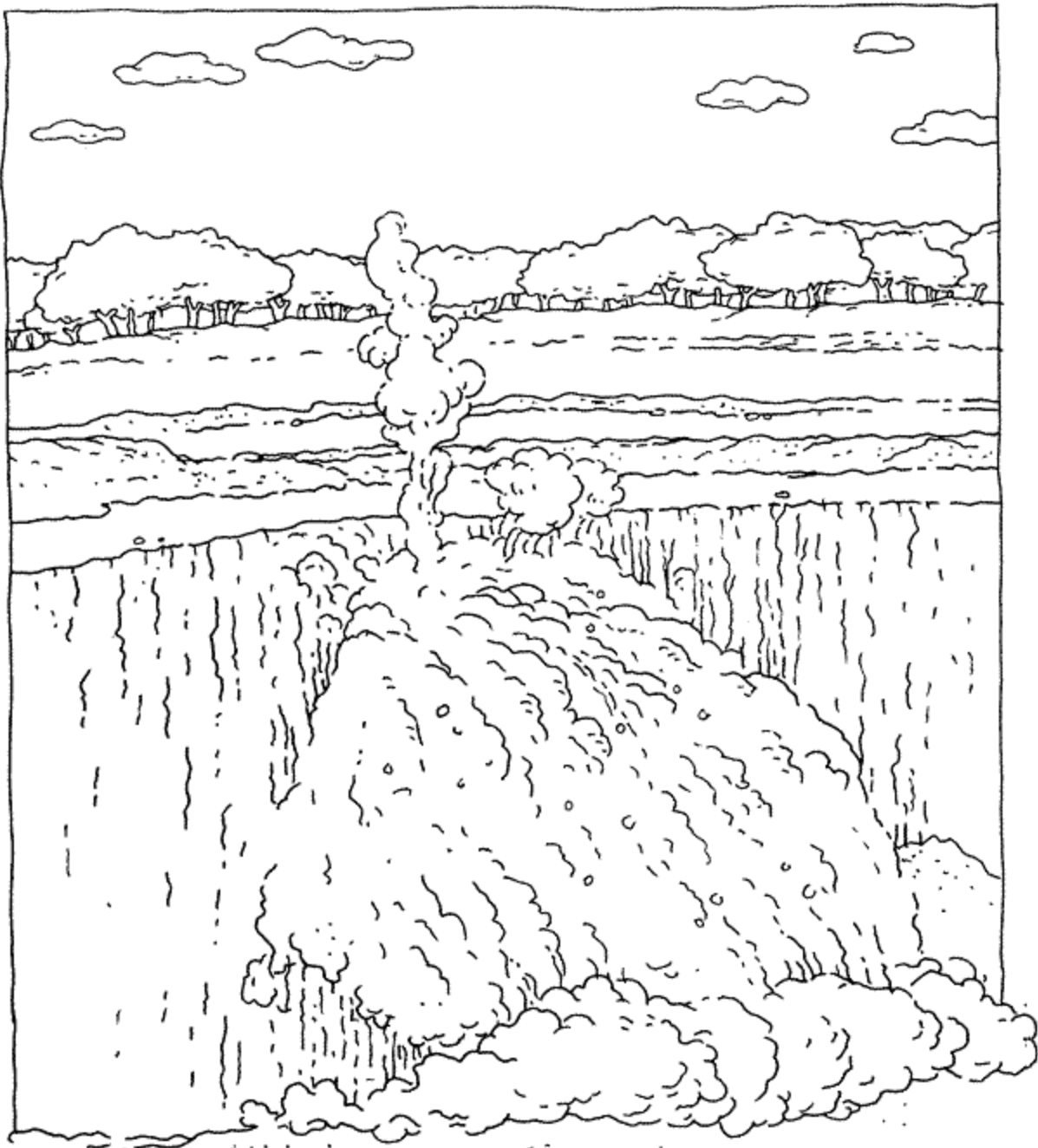
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Big rocks are crushed to smaller rocks. This machine, called a portable crusher, is moved to where the biggest rocks are. Then it crushes them into piles of smaller rocks.

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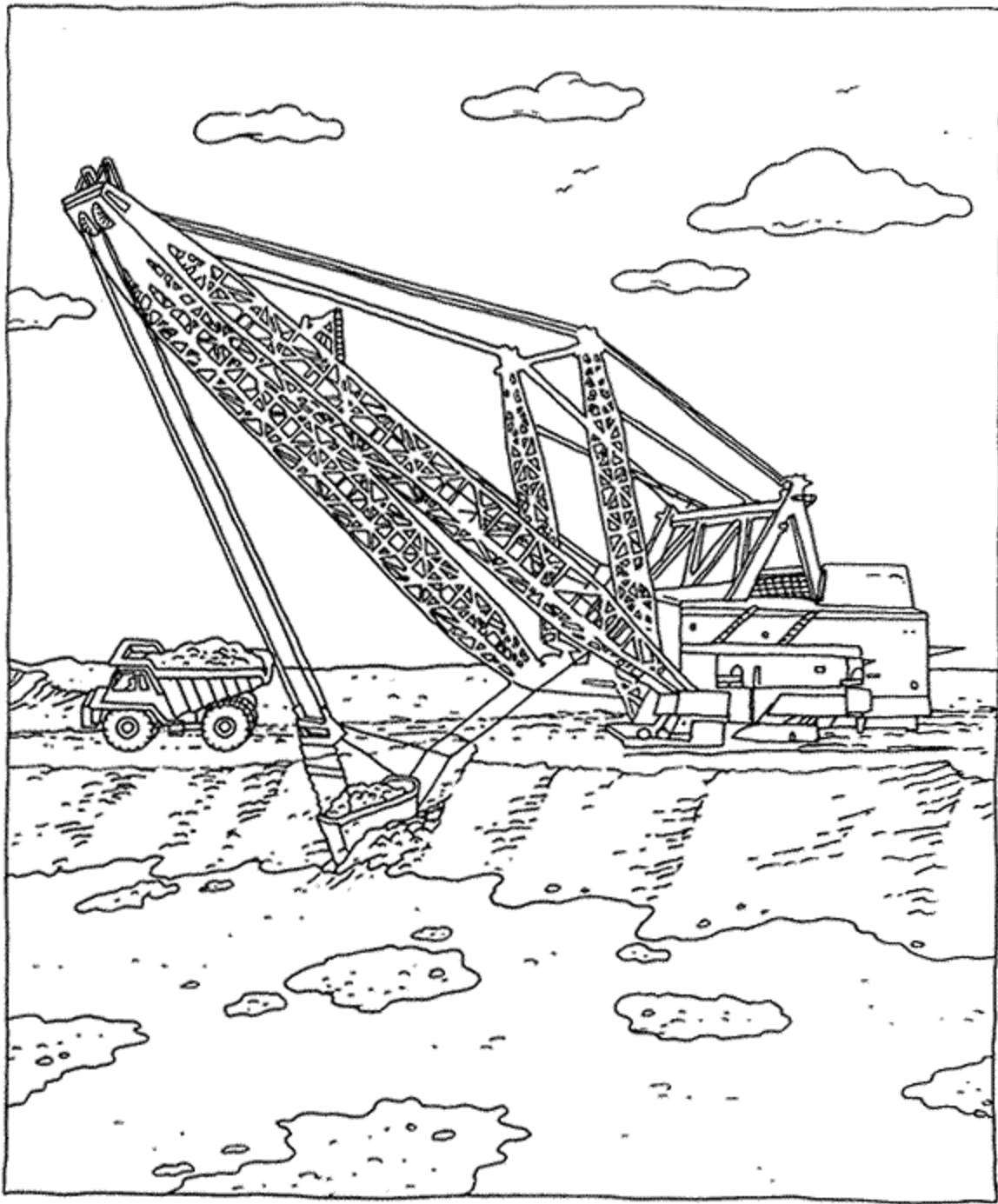
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Some rocks are too big to crush at first. They have to be carefully blasted into smaller pieces. The workers follow special safety rules when blasting happens.



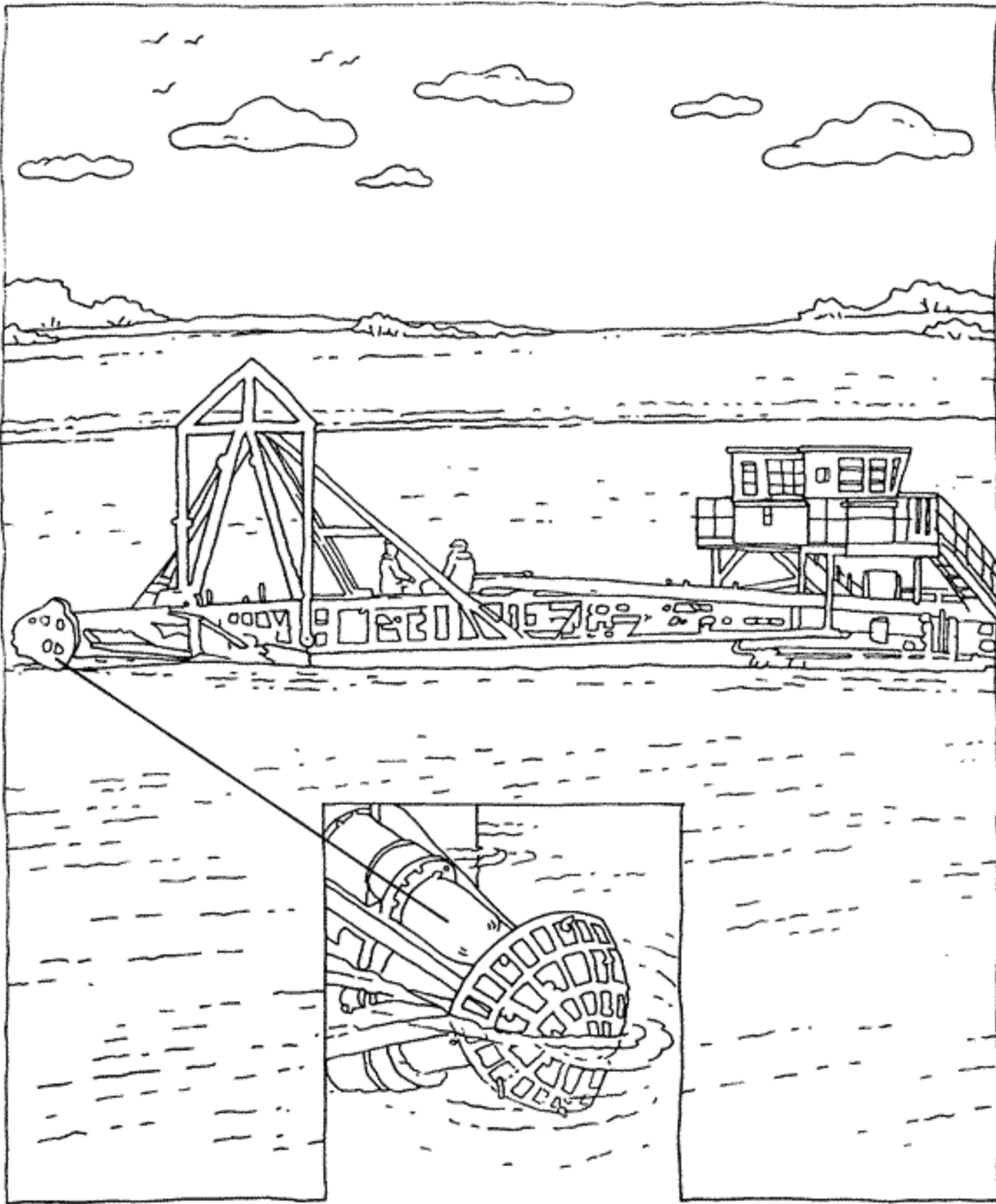
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Sand and gravel are sometimes dug up from under water in an excavation called a pit. This machine with the big bucket is called a dragline.



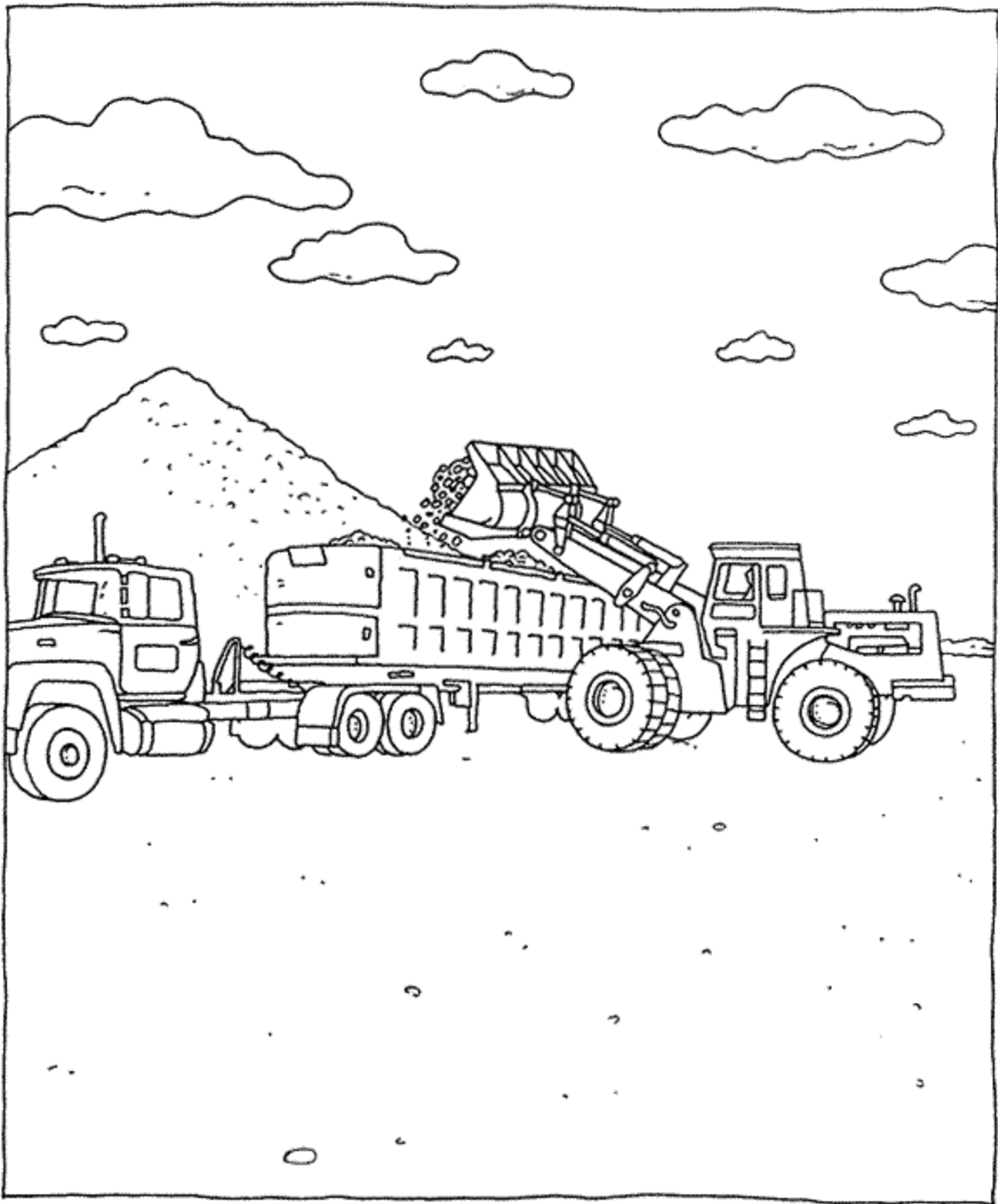
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Another way to get sand and gravel from the bottom of a water-filled pit is to bring it up a pipe, much like a sweeper, or vacuum cleaner. It is called a dredge.



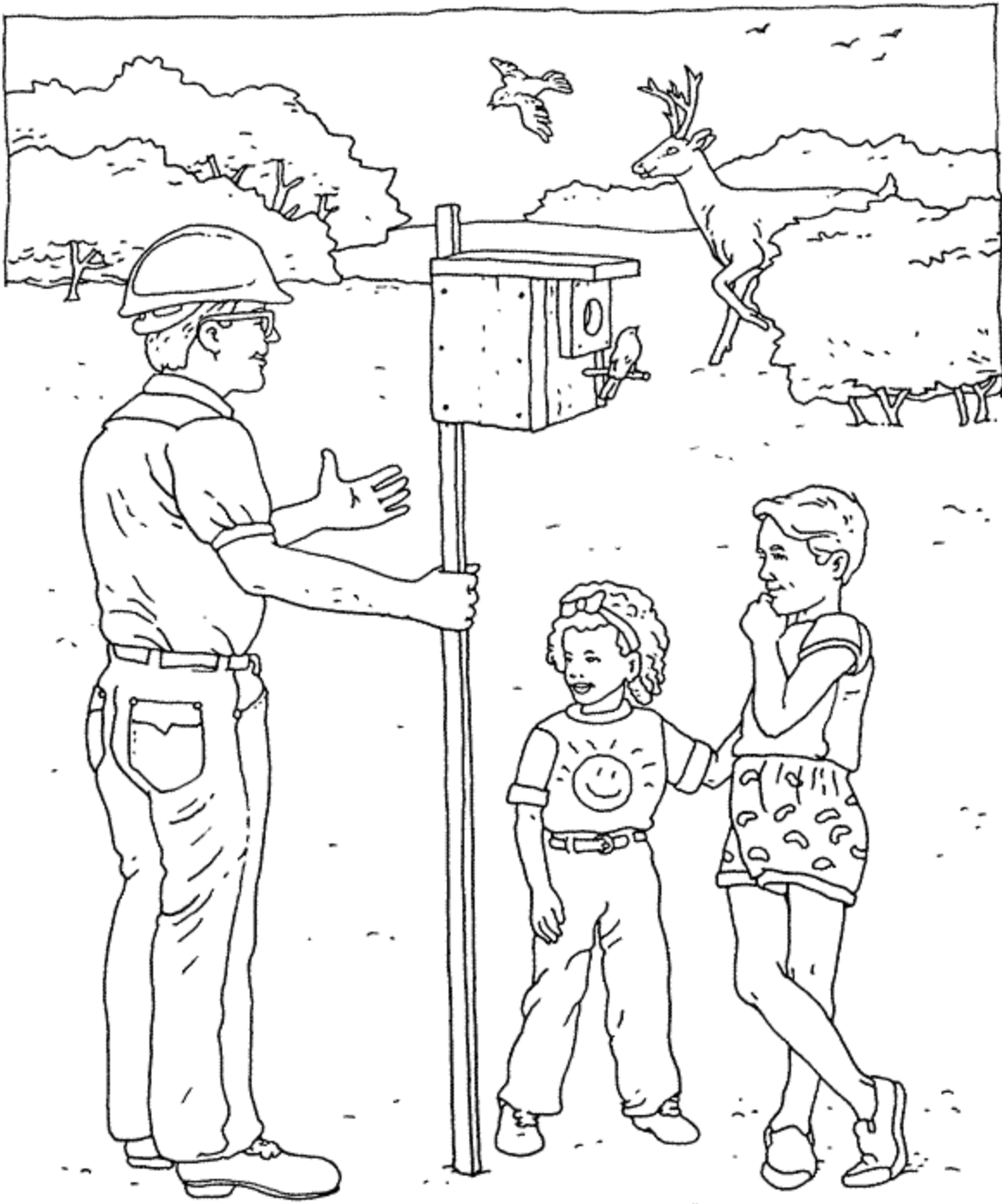
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When the rock is crushed into the right size, it is taken safely to the building site.

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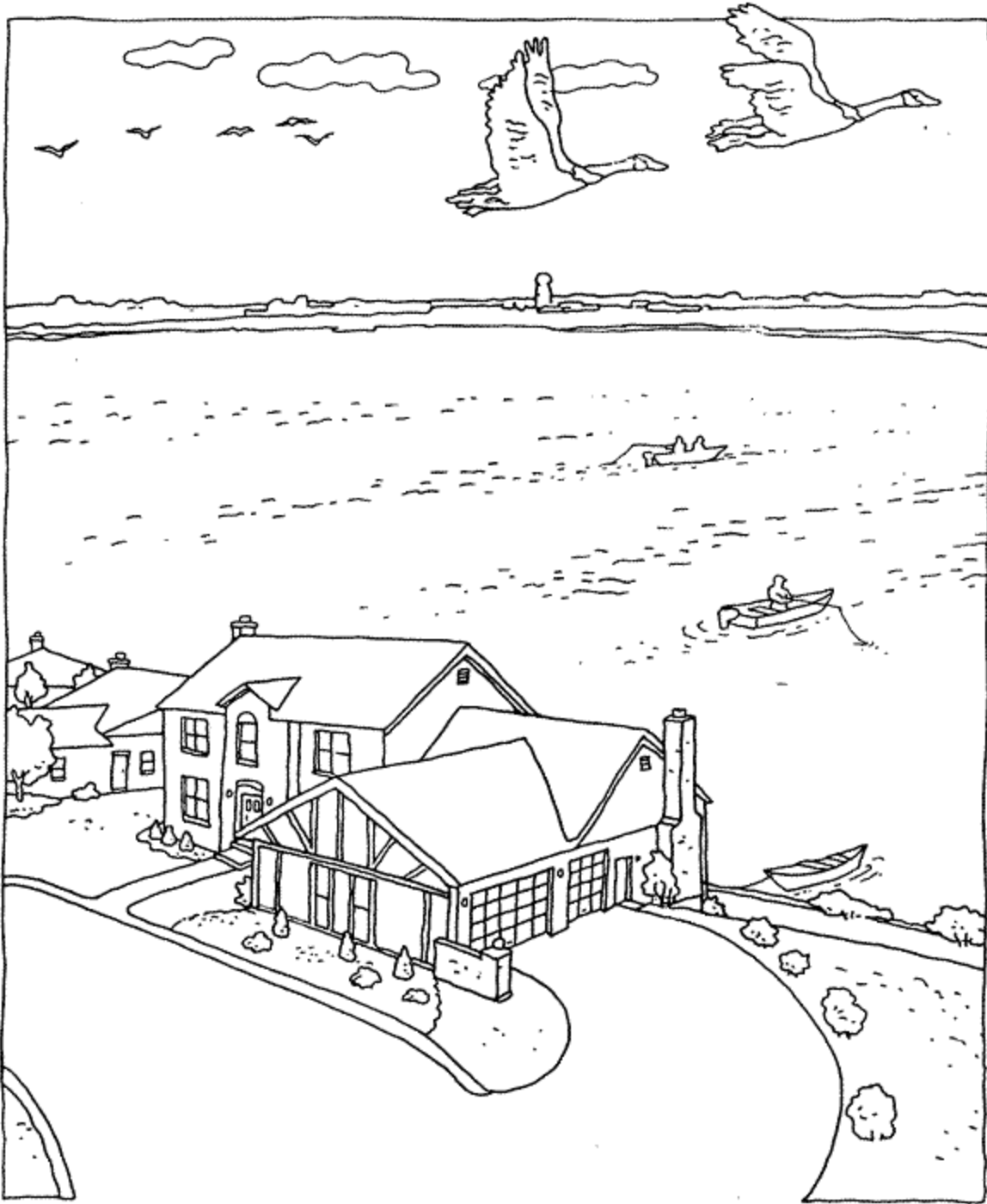
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Caring for the environment is an important part of working at an aggregate mine. Special care is taken to help birds and animals that live in the same area.



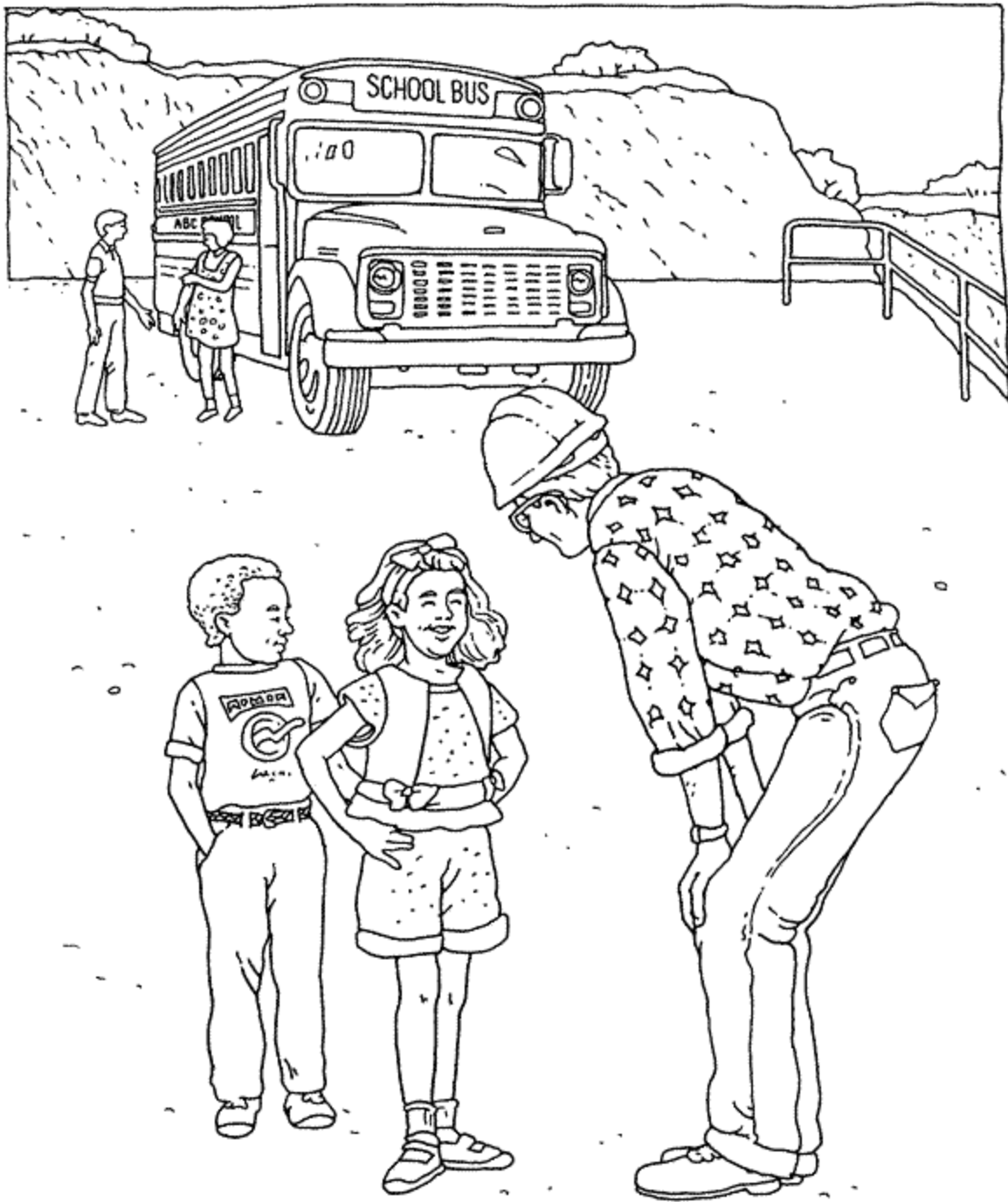
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When an excavated pit is no longer mined, the company that owns it continues to make it a place that people can use. Sometimes former aggregate mines become reclaimed areas for parks or housing developments with beautiful lakes.



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Would you like to visit an aggregate mine? Do you want to work there as a geologist or equipment operator?



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