



1
00:00:00,000 --> 00:00:04,000
(Music)

2
00:00:04,000 --> 00:00:10,000
Hello, My name is Betina Pavri, payload downlink coordinator, and this is your Curiosity rover update.

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00:00:10,000 --> 00:00:15,000
Curiosity continues scooping at Rocknest this week.

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00:00:15,000 --> 00:00:20,000
The Mastcam and Navcam instruments provided images and video

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00:00:20,000 --> 00:00:25,000
used to assess the success of the scooping and sample processing activities. These images

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00:00:25,000 --> 00:00:32,000
also provided confirmation that the sampling system was successfully cleaned after the process was completed

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00:00:32,000 --> 00:00:37,000
Also this week, a soil sample was dropped off to the rover's observation tray

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00:00:37,000 --> 00:00:39,000
for assessment by the science team.

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00:00:39,000 --> 00:00:44,000
This sample was determined to be suitable for drop off to the CheMin instrument.

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00:00:44,000 --> 00:00:48,000
The CheMin instrument uses X-rays in order to image the sample

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00:00:48,000 --> 00:00:50,000
and determine what minerals make it up.

12
00:00:50,000 --> 00:00:53,000
This helps geologists understand how the rock formed

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00:00:53,000 --> 00:00:57,000

and how it's related to other rocks we've studied so far on Mars.

14

00:00:57,000 --> 00:01:00,000

Scientists identified numerous bright grains in the soil.

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00:01:00,000 --> 00:01:05,000

Because of this small piece of plastic from the landing event

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00:01:05,000 --> 00:01:08,000

that had been found earlier in the week, the team proceeded cautiously,

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00:01:08,000 --> 00:01:13,000

dumping the second scoop collected and imaging the bright grains.

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00:01:13,000 --> 00:01:18,000

These bright grains were later determined to be components of the Martian soil, and therefore,

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00:01:18,000 --> 00:01:22,000

the sample was deemed to be suitable for delivery to the CheMin instrument for analysis.

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00:01:22,000 --> 00:01:29,000

The science team requested Mastcam and Navcam mosaics of the outcrops in the direction of Glenelg,