1
00:00:06,600 --> 00:00:11,130
Hi I'm Noah Warner, tactical uplink lead
for the Mars Science Laboratory mission and

2
00:00:11,130 --> 00:00:13,879
this is your Curiosity rover update.

3
00:00:13,879 --> 00:00:17,880
Curiosity is currently at the Rocknest location
inside Gale Crater.

4
00:00:17,880 --> 00:00:21,940
When we first arrived at Rocknest, we performed
a wheel scuff maneuver.

5
00:00:21,940 --> 00:00:25,750
This is our rover's version of kicking up
dirt with your hiking boot to determine if

6
00:00:25,750 --> 00:00:28,870
the Rocknest area was indeed a good first
scoop target.

7
00:00:28,870 --> 00:00:34,210
The first scoop was successfully performed
on Sol 61 and the entire team was excited

8
00:00:34,210 --> 00:00:39,179
to see the Mastcam images showing the scoop
full of dirt, as well as the video of the

9
00:00:39,179 --> 00:00:43,059
vibration activities performed with the turret-mounted
tools.

10
00:00:43,059 --> 00:00:48,039
This vibration allows the team to level out
and remove any excess sample before closing

11

00:00:48,039 --> 00:00:52,579
the scoop, and it also provides some insight
into the makeup of the soil.

12
00:00:52,579 --> 00:00:57,079
Any large particles would tend to float up
to the top as the entire sample is vibrating,

13
00:00:57,079 --> 00:01:01,949
much the same way you would shake out the
marshmallows in your box of Lucky Charms.

14
00:01:01,949 --> 00:01:05,940
Looking carefully at images, the team noticed
a bright object lying on the ground just in

15
00:01:05,940 --> 00:01:06,940
front of the rover.

16
00:01:06,940 --> 00:01:11,400
We typically call something like this FOD,
Foreign Object Debris.

17
00:01:11,400 --> 00:01:15,900
The ChemCam remote micro-imager captured a
high resolution image of the object showing

18
00:01:15,900 --> 00:01:20,890
that it’s most likely a benign piece of
plastic or shrink tube left over from a terminated

19
00:01:20,890 --> 00:01:21,890
wire.

20
00:01:21,890 --> 00:01:25,560
This could’ve possibly come from the rover
or from the descent stage separation event

21
00:01:25,560 --> 00:01:27,030
during landing.

22
00:01:27,030 --> 00:01:31,549
Curiosity processed the scoop sample through
CHIMRA, our labyrinth of passageways at the

23
00:01:31,549 --> 00:01:35,399
end of the arm that we use to sieve and portion
the soil sample.

24
00:01:35,399 --> 00:01:39,549
We did some internal sandblasting by vibrating
the sample at different orientations on the

25
00:01:39,549 --> 00:01:43,219
turret in order to remove any internal contamination.

26
00:01:43,219 --> 00:01:47,460
The team dropped the first scoop off the left
side of the rover, and in upcoming sols, we

27
00:01:47,460 --> 00:01:53,060
will make our first attempt to drop off sample
to the observation tray and the CheMin instrument.

28
00:01:53,060 --> 00:01:57,250
We plan to be at Rocknest for the coming week
to complete our scoop activities and then

29
00:01:57,250 --> 00:02:01,670
we'll get back on the road to Glenelg, where
we'll be looking for our first rock to drill.