

Vale S.A.  
Form 6-K  
January 28, 2019  
[Table of Contents](#)

**United States**  
**Securities and Exchange Commission**

Washington, D.C. 20549

**FORM 6-K**

**Report of Foreign Private Issuer**

**Pursuant to Rule 13a-16 or 15d-16**

**of the**

**Securities Exchange Act of 1934**

**For the month of**

**January 2019**

**Vale S.A.**

**Praia de Botafogo n° 186, 18° andar, Botafogo  
22250-145 Rio de Janeiro, RJ, Brazil**

(Address of principal executive office)

(Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.)

Edgar Filing: Vale S.A. - Form 6-K

(Check One) Form 20-F  Form 40-F

(Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1))

(Check One) Yes  No

(Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7))

(Check One) Yes  No

(Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.)

(Check One) Yes  No

(If Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b). 82- .)

---

Table of Contents

Table of Contents:

Press Release  
Signature Page

3  
6

Table of Contents

**Vale updates information on the dam breach in Brumadinho**

Rio de Janeiro, January 27<sup>th</sup>, 2019 - Vale S.A. (Vale) updates information on the breach of the Dam I of the Córrego de Feijão mine that occurred in the early afternoon of January 25<sup>th</sup>, 2019.

**On the dam**

Until 2015, the Dam I of the Córrego do Feijão mine, located in Brumadinho (MG, Brazil), received the disposal of tailings from the production of the above-mentioned mine. Since then, it was inactive (with no further disposal of tailings), without a lake, and there was not any other kind of operational activity in place at the dam. Currently, the decommissioning project of the dam was under development.

The dam was built in 1976 by Ferteco Mineração (acquired by Vale on April 27<sup>th</sup>, 2001), using the upstream method. The dam was 86 meters high with crest length of 720 meters. The disposed tailings occupied an area of 249.5 thousand m<sup>2</sup> and the disposed volume was 11.7 million m<sup>3</sup>.

The Dam I had Stability Condition Statements issued by TUV SUD do Brasil, an international company specialized in Geotechnics. The Stability Condition Statements were issued on 6/13/18 and 9/26/18, related to the Periodic Safety Review of Dams and Regular Dam Safety Inspection processes, respectively, as determined by the DNPM Decree 70.389/2017. The dam had a Safety Factor in accordance with the world's best practices and above the reference of the Brazilian Standard. Both of the abovementioned stability declarations attest to the physical and hydraulic safety of the dam.

**On the other structures of the Córrego do Feijão mine**

The small-sized structures IV and IV-A of the Córrego de Feijão mine were affected by the tailings that leaked from Dam I.

Dam VI, which contains 843.8 thousand m<sup>3</sup> of tailings, was inspected shortly after the Dam I breach and it was verified that the structure remained within the required safety parameters, even after the impact of the tailings. The dam is being continuously monitored by two radars, one of which works with real-time monitoring every 3 minutes.

On Sunday, around 5:30 PM, the siren warning was activated in the region of Córrego do Feijão mine in Brumadinho (MG, Brazil), after detecting an increase of the water levels by the measurement tools that are monitoring the Dam VI. The authorities were alerted and, as a preventive measure, the community in the region was gathered in the meeting places previously determined by the Emergency Plan. The company is draining the Dam VI with the use of pumps, to reduce the amount of water in the reservoir and the water levels already receded to safe levels, reducing the critical alert level from 2 to 1. With that, people that had left their homes have already been allowed to return and the Civil Defense Corps have also been able to recommence their search for the missing people in the region.

The Dams VII and Menezes I and II did not suffer any impact.

Table of Contents

**On the mine operation**

The plant facilities, the loading terminal, the maintenance workshops and the administrative buildings of the Córrego de Feijão mine were damaged, and there were blockages to the road access from the mine to the Córrego do Feijão village as well as the access from the entry passageway to the Alberto Flores cloverleaf interchange.

On Friday night (1/25/19), the State Secretariat for the Environment and Sustainable Development (SEMAD) issued the first inspection report ordering the immediate suspension of all activities of the mining company at the site, except for emergency activities. Moreover, SEMAD determined the immediate opening of a channel where there was accumulation of sediments interrupting the natural flow of the watercourse.

The Córrego de Feijão mine belongs to the Paraopebas Complex in the Southern System and produced 7.8 Mt in 2017 and 8.5 Mt in 2018, out of a total of 26.3 Mt and 27.3 Mt of the Paraopebas Complex, respectively.

The other mines and processing plants of the Paraopebas Complex were not affected by the tailings wave.

**On the impacts of the dam breach and emergency actions**

As at 6:00 PM of January 27th, 2019, 361 people have been found, 305 people are still missing, and 16 fatalities were confirmed by the Instituto Médico Legal (IML). Vale continues fully focused on relief efforts and on the support of those affected. Rescue and assistance to the victims on site continue being operated by the Fire Department and by the Civil Defense Corps. Vale's teams have been working, uninterruptedly, along with the Fire Department and Civil Defense Corps, in support of the rescue of victims. The company provided 15 lighting towers, backhoes, 40 ambulances, 800 beds, a helicopter to support rescue and 1 million liters of potable water, 1.6 thousand liters of mineral water for the community, as well as private hospital care and psychologists. Since the breach, Vale has also made available 2 support centers and a free-to-call phone service to serve those affected. In the support centers, 60 of the company's employees and volunteers are working to provide shelter and help with identification efforts 24/7. As at Sunday, 10:00 AM, over 1.4 thousand calls had been answered and 1,000 people had been relocated to the support centers.

In regard to the displacement of tailings, due to the fact that the dam was inactive, that is, it did not receive further tailings, they were relatively dry and, as a result, the movement of the tailings was limited. What is flowing in the channel of the river is water with altered turbidity level and color. So far, as at 4:24 PM of January 27th, 2019, the water reached 63 Km from the point of the dam breach. However, it should be noted that the tailings are still not stable, and there may be more intense movements depending on the weather conditions, especially rainfall over the affected region. Vale mobilized teams for monitoring the Paraopeba River basin, for wildlife rescuing and to support sanitation measures.

**For further information, please contact:**

+55-21-3485-3900

Andre Figueiredo: [andre.figueiredo@vale.com](mailto:andre.figueiredo@vale.com)

Andre Werner: [andre.werner@vale.com](mailto:andre.werner@vale.com)

Carla Albano Miller: [carla.albano@vale.com](mailto:carla.albano@vale.com)

Fernando Mascarenhas: [fernando.mascarenhas@vale.com](mailto:fernando.mascarenhas@vale.com)

Samir Bassil: [samir.bassil@vale.com](mailto:samir.bassil@vale.com)

Bruno Siqueira: [bruno.siqueira@vale.com](mailto:bruno.siqueira@vale.com)

Clarissa Couri: [clarissa.couri@vale.com](mailto:clarissa.couri@vale.com)

Table of Contents

Renata Capanema: renata.capanema@vale.com

This press release may include statements that present Vale's expectations about future events or results. All statements, when based upon expectations about the future, involve various risks and uncertainties. Vale cannot guarantee that such statements will prove correct. These risks and uncertainties include factors related to the following: (a) the countries where we operate, especially Brazil and Canada; (b) the global economy; (c) the capital markets; (d) the mining and metals prices and their dependence on global industrial production, which is cyclical by nature; and (e) global competition in the markets in which Vale operates. To obtain further information on factors that may lead to results different from those forecast by Vale, please consult the reports Vale files with the U.S. Securities and Exchange Commission (SEC), the Brazilian Comissão de Valores Mobiliários (CVM), and the French Autorité des Marchés Financiers (AMF), and in particular the factors discussed under "Forward-Looking Statements" and "Risk Factors" in Vale's annual report on Form 20-F.



Table of Contents

**Signatures**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Vale S.A.  
(Registrant)

By:

/s/ André Figueiredo  
Director of Investor Relations

Date: January 27th, 2019