

From: [Henderson, Connie](#)
To: [Watkins, Ian](#)
Cc: [Sims, Herndon](#); [Suarez, Chris](#)
Subject: FLOA00014 0 Trail Ridge South
Date: Tuesday, May 23, 2023 4:47:21 PM
Attachments: [TR Radium Exceedence.pdf](#)

EXTERNAL MESSAGE

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Ian, Attached is the 5 day report for the radium exceedance discussed last week. Should you have any questions, please let us know.

Connie Henderson
Environmental Manager
Titanium Technologies
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5222 Treat Road, PO Box 753
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May 23, 2023

Mr. Ian Watkins
Florida Department of Environmental Protection
8800 Baymeadows Way West, Suite 100
Jacksonville, FL 32256

Via Email: ian.watkins@FloridaDEP.gov

RE: IWW Permit No. FLOA00014 – Radium Exceedance

Dear Mr. Watkins:

The following provides additional information pertaining to the radium 226/228 exceedance from the Trail Ridge South D001 outfall during the April 2023 release. Per the notification to the Department on May 17, 2023 (verbal) and email (May 18, 2023, the radium 226/228 was reported to be 9.3 pCi/L and gross alpha was 6.2 pCi/L (permit limits of 5.0 pCi/l and 15.0 pCi/L, respectively).

A discharge was initiated on April 12 through 28, 2023. The monthly radium sample was taken on April 19. Results of the radium sample became available on May 16, 2023. No discharge has occurred since April 28, 2023.

Two internal Ra-228 samples were taken prior to the discharge to estimate Ra- 226/228 values and did not contain elevated levels. Currently, barium chloride is being added to the treatment process, as a preventative measure, as it has been shown to remove radium from water.

A complete Root Cause Analysis (RCA) will be conducted on this incident. Should you have any questions regarding the attached, please do not hesitate to contact me at 904.263.8592.

Sincerely,

A handwritten signature in cursive script that reads "Connie Henderson".

Connie Henderson
Environmental Manager

c: Herndon Sims, DEP NE District
Chris Suarez, DEP Mining and Mitigation