

Package: breathablepitlat (via r-universe)

September 24, 2026

Title Breathable Laminate-Lined Pit Latrines, Fatehpur, India
2021-2022

Version 1.0.1

Description This dataset assists with a research study aims at capturing the pathogens and contaminants from pit latrines by lining them with a hydrophobic laminate. The data are collected to demonstrate the transport of contaminants from two pour flush, twin-pit latrines in which one pit is lined and one is unlined.

License CC BY 4.0

Encoding UTF-8

Roxygen list(markdown = TRUE)

Depends R (>= 2.10)

LazyData true

Language en-GB

Config/Needs/website rmarkdown, dplyr, gt, kableExtra, knitr, readr, stringr, tidyverse

Date 2024-06-21

URL <https://github.com/openwashdata/breathablepitlat>

BugReports <https://github.com/openwashdata/breathablepitlat/issues>

X-schema.org-keywords open data, washdata, sanitation, pit latrines, faecal contamination, soil quality, groundwater, India

X-schema.org-spatialCoverage Fatehpur District, Uttar Pradesh, India

X-schema.org-temporalCoverage 2021-12-01/2022-12-31

Config/roxygen2/version 8.0.0

Repository <https://openwashdata.r-universe.dev>

Date/Publication 2026-09-24 05:05:27 UTC

RemoteUrl <https://github.com/openwashdata/breathablepitlat>

RemoteRef HEAD

RemoteSha 9d42f3f8547c0e485444b8cbe72080e1a298ba4b

Contents

breathablepitlat	2
Index	3

breathablepitlat	<i>breathablepitlat: Breathable Laminate-Lined Pit Latrines, Fatehpur, India 2021-2022</i>
------------------	--

Description

This dataset assists with a study aims at capturing the pathogens and contaminants from pit latrines by lining them with a hydrophobic laminate. This paper demonstrates the transport of contaminants from two pour flush, twin-pit latrines in which one pit is lined and one is unlined. A direct comparison of soil/water quality parameters around each pit is done to elucidate the efficacy of a hydrophobic laminate liner at field-scale.

Usage

breathablepitlat

Format

A tibble with 3132 rows and 8 variables

site There are two sites for the field test: site 1 and site 2. A twin-pit pour-flush pit latrine was constructed at each site.

depth The soil samples were collected at two different depths (1 m and 1.5 m) from ground level.

lateral The soil samples were collected from 0.5 m , 1 m, 5 m and 10 m lateral distance away from the pit.

time This describes the time (in days) of sample collection. The water and soil samples were collected over a period of 322 days.

test The 6 parameters tested from the samples collected in this field test. They include pH, electrical conductivity, total coliform, nitrate, ammonia, and phosphorus.

location The location of the soil samples marked P1 for unlined and P2 for lined pit. A, B, C, D, E, F are locations around the pits while M is the middle point between the lined and unlined pit.

values The values measured for said parameter

num_test Whether the measured value is numeric; TRUE for every row.

Index

* **datasets**

breathablepitlat, [2](#)

breathablepitlat, [2](#)