

# ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 8 (13) MASTER LIST 2024 (INCLUDES JAN, FEB, MAR)



<p><b><u>AIR QUALITY</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Indoor air</a></li> <li>• <a href="#">Outdoor air</a></li> <li>• <a href="#">Radon, Other</a></li> </ul>	<p><b><u>CLIMATE CHANGE</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Extreme weather</a></li> <li>• <a href="#">Flooding</a></li> <li>• <a href="#">Sea level rise</a></li> <li>• <a href="#">Wildfires, Other</a></li> </ul>	<p><b><u>DISEASES, VECTORS, PESTS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">COVID-19</a></li> <li>• <a href="#">Animal vectors</a></li> <li>• <a href="#">Insect vectors</a></li> <li>• <a href="#">Pests, Other</a></li> </ul>
<p><b><u>FOOD</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Food safety</a></li> <li>• <a href="#">Food security</a></li> <li>• <a href="#">Growing food, Other</a></li> </ul>	<p><b><u>BUILT ENVIRONMENT</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Green&amp; blue spaces</a></li> <li>• <a href="#">Housing</a></li> <li>• <a href="#">Noise</a></li> <li>• <a href="#">Planning &amp; design</a></li> <li>• <a href="#">Transportation, Other</a></li> </ul>	<p><b><u>PUBLIC HEALTH FUNDAMENTALS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Communication</a></li> <li>• <a href="#">Health promotion</a></li> <li>• <a href="#">Health impact assessment</a></li> <li>• <a href="#">Health equity</a></li> <li>• <a href="#">One Health, Other</a></li> </ul>
<p><b><u>WATER</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Drinking water</a></li> <li>• <a href="#">Recreational water</a></li> <li>• <a href="#">Small water systems</a></li> <li>• <a href="#">Wastewater, Other</a></li> </ul>	<p><b><u>NON-CLIMATE RELATED DISASTERS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Marine</a></li> <li>• <a href="#">Terrestrial, Other</a></li> <li>• <a href="#">Emergencies-general</a></li> </ul>	<p><b><u>OTHER TOPICS</u></b></p> <ul style="list-style-type: none"> <li>• <a href="#">Cannabis products</a></li> <li>• <a href="#">Tobacco, nicotine products</a></li> <li>• <a href="#">Ionizing, non-ionizing radiation</a></li> <li>• <a href="#">Personal services establishments, Other</a></li> </ul>
<p><b><u>SPECIFIC POPULATIONS</u></b> (children, Indigenous Peoples, older adults, other)</p>		

*Environmental Health (EH) Research Scan: Aims and scope*

NCCEH's EH Research Scan aims to expand awareness of topics in environmental health, in line with [NCCEH's vision](#) to be the indispensable online resource for environmental health practitioners and policy-makers across Canada. This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases. Not all links are open access; some are abstract links where paid journal subscription is required.

## ENVIRONMENTAL HEALTH RESEARCH SCAN

THIS IS A SPECIAL ISSUE WHICH PROVIDES A CUMULATIVE LIST OF ENVIRONMENTAL HEALTH RESOURCES COLLECTED FROM JANUARY 2024 TO PRESENT.

### Water storage and emerging challenges in a changing climate [evidence review].

Juliette O’Keeffe, Knowledge Translation Scientist, NCCEH

*“This review provides an overview of the environmental public health hazards related to water storage and key considerations for maintaining safe water supplies in a changing climate.”*



### The health risks of marine biotoxins associated with high seafood consumption: Looking beyond the single dose, single outcome paradigm with a view towards addressing the needs of coastal Indigenous populations in British Columbia [journal article].

Sarah B Henderson, Scientific Director, Environmental Health Services, BCCDC and the National Collaborating Centre for Environmental Health (NCCEH), and co-authors

*“Overall, we conclude that there is a need to move beyond the single-dose single-outcome model of exposure to better serve Indigenous communities and others who consume high quantities of seafood.”*



### Using low-cost air quality sensors to estimate wildfire smoke infiltration into childcare facilities in British Columbia, Canada [journal article].

Michael Lee, Epidemiologist, Environmental Health Services, BCCDC, and co-authors

*“We found that indoor PM<sub>2.5</sub> in childcare facilities increased with outdoor PM<sub>2.5</sub>. This effect varied between facilities and between wildfire-smoke and non-wildfire smoke days. These findings highlight the importance of air quality monitoring....”*



### Estimates of global mortality burden associated with short-term exposure to fine particulate matter (PM<sub>2.5</sub>) [journal article].

Wenhua Yu, PhD candidate, Monash University, and co-authors

*“Our results highlight the importance of mitigation strategies to reduce short-term exposure to air pollution and its adverse effects on human health.”*



Climate change, landscape fires, and human health: a global perspective [journal article].

Fay H Johnston, Medical Doctor, University of Tasmania, and co-authors

*“Minimizing the adverse effects of landscape fires on population health requires understanding how human and environmental influences on fire impacts can be modified through interventions targeted at individual, community, and regional levels.”*



A review of biogenic amines in fermented foods: Occurrence and health effects [journal article].

Nikita Saha Turna, Environmental Health Services, BCCDC, and co-authors

*“In this review, we highlight the health risks and symptoms linked to biogenic amines (BA) exposures, the BA levels found in different fermented foods, regulatory and suggested toxic doses, and risk mitigation strategies to inform food industry and public health professionals' practice.”*



Climate change and health: rethinking public health messaging for wildfire smoke and extreme heat co-exposures [journal article].

Eric Coker, Environmental Health Scientist, BCCDC, and co-authors

*“More precise, complete, and coordinated public health messaging would protect against climate-sensitive health outcomes attributable to wildfire smoke and extreme heat co-exposures.”*



The importance of collaborative foodborne illness outbreak investigations [blog].

Ken Diplock, Coordinator of the Bachelor of Environmental Public Health (BEPH) program at Conestoga College Institute of Technology and Advanced Learning

*“This blog delves into the importance of collaborative approaches adopted in Canada for FBI outbreak investigations [more].”*



### Extreme cold [subject guide].

National Collaborating Centre for Environmental Health

*“The resources listed are intended to assist environmental public health professionals with the management of extreme cold events, including health and safety precautions to take during cold weather, and considerations for issuing extreme cold alerts.”*



### 2024 core competencies for public health in Canada [webinar].

National Collaborating Centre for Environmental Health (Feb 1, 2024)

*“In this engagement session, specifically planned for environmental public health professionals (EPHPs), we will share our progress on the [2024 Core Competencies for Public Health in Canada](#) project and to seek crucial EPHP input.”*



### Human biomonitoring of environmental chemicals: current use and future directions [webinar].

National Collaborating Centre for Environmental Health (Feb 1, 2024)

*“In this presentation we describe the value of human biomonitoring data and how they can be used. We also introduce our vision for the future of human biomonitoring in Canada.”*



### Environmental Health Research Scan [evidence brief].

National Collaborating Centre for Environmental Health (Jan, Feb scans are available)

NCCEH eNews

National Collaborating Centre for Environmental Health (Jan, Feb issues are available)



### Predicting the environmental drivers of recreational water quality in Canada [webinar].

National Collaborating Centre for Environmental Health (Feb 15, 2024)

*“In this presentation we will discuss recreational water quality in beaches located in four regions across Canada and present key findings of the project.”*



### Practices and inspiration for sustainable transportation equity: case studies from Canadian cities [healthy built environment webinar].

National Collaborating Centre for Environmental Health (Feb 29, 2024)

*“In this presentation we delve deeper into key insights from the report, including what transportation equity really means, takeaways for municipal policymaking, and lessons learned from the transportation equity journeys of New Westminster, Edmonton, and Ottawa.”*



## NCCEH – PUBLICATIONS, WEBINARS, OTHER

### BLOGS

1. Diplock K. **The importance of collaborative foodborne illness outbreak investigations [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Feb 16. Available from: <https://ncceh.ca/resources/blog/importance-collaborative-foodborne-illness-outbreak-investigations>.

### eNEWS

1. National Collaborating Centre for Environmental Health. **NCCEH eNews (January 2024): Extreme cold; more...** Vancouver, BC: NCCEH; 2024 Jan 18. Available from: [https://app.cyberimpact.com/newsletter-view-online?ct=ap3GYSsyF-0AdTglTegq6vcLuQylozcLE4CIDMpEysZD\\_djFQXRMz\\_fleRXiVFCsPCLUOhTVmEWjDzLWkRwbpg~](https://app.cyberimpact.com/newsletter-view-online?ct=ap3GYSsyF-0AdTglTegq6vcLuQylozcLE4CIDMpEysZD_djFQXRMz_fleRXiVFCsPCLUOhTVmEWjDzLWkRwbpg~).
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### EVIDENCE BRIEFS

1. National Collaborating Centre for Environmental Health. **January research scan**. Vancouver, BC: NCCEH; 2024 Jan 18. Available from: <https://ncceh.ca/sites/default/files/2024-01/NCCEH%20Research%20Scan%20-202401%2C%20features%202023.pdf>.
2. National Collaborating Centre for Environmental Health. **February research scan**. Vancouver, BC: NCCEH; 2024 Feb 22. Available from: <https://ncceh.ca/sites/default/files/2024-02/NCCEH%20Research%20Scan%20-202402.pdf>.

### EVIDENCE REVIEWS

1. O’Keeffe J. **Water storage and emerging challenges in a changing climate [evidence review]**. 2024 03 08 Mar 8. Available from: <https://ncceh.ca/resources/evidence-reviews/water-storage-and-emerging-challenges-changing-climate>.

### JOURNAL ARTICLES

1. Johnston FH, Williamson G, Borchers-Arriagada N, Henderson SB, Bowman DMJS. **Climate change, landscape fires, and human health: a global perspective**. Annu Rev Public Health. 2024;45(1). Available from: <https://www.annualreviews.org/doi/abs/10.1146/annurev-publhealth-060222-034131>.
2. Lee MJ, Dickson JM, Greif O, Ho W, Henderson SB, Mallach G, Coker ES. **Using low-cost air quality sensors to estimate wildfire smoke infiltration into childcare facilities in British Columbia, Canada**. Environmental Research: Health. 2024;2(2):025002. Available from: <https://dx.doi.org/10.1088/2752-5309/ad1fd6>.

3. Lee MJ, Henderson SB, Clermont H, Turna NS, McIntyre L. **The health risks of marine biotoxins associated with high seafood consumption: Looking beyond the single dose, single outcome paradigm with a view towards addressing the needs of coastal Indigenous populations in British Columbia.** Heliyon. 2024 03 02. Available from: [https://www.cell.com/heliyon/pdf/S2405-8440\(24\)03177-3.pdf](https://www.cell.com/heliyon/pdf/S2405-8440(24)03177-3.pdf).
4. Saha Turna N, Chung R, McIntyre L. **A review of biogenic amines in fermented foods: Occurrence and health effects.** Heliyon. 2024 01 30;10(2):e24501. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/38304783>.
5. Yu W, Xu R, Ye T, Abramson MJ, Morawska L, Jalaludin B, et al. **Estimates of global mortality burden associated with short-term exposure to fine particulate matter (PM2.5).** The Lancet Planetary Health. 2024 03 02;8(3):e146-e55. Available from: [https://doi.org/10.1016/S2542-5196\(24\)00003-2](https://doi.org/10.1016/S2542-5196(24)00003-2).
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#### SUBJECT GUIDES

1. National Collaborating Center for Environmental Health. **Extreme cold [subject guide].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Jan 11. Available from: <https://ncceh.ca/resources/subject-guides/extreme-cold>.

#### WEBINARS

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2. Winters M, Barr V, Chow L. **Practices and inspiration for sustainable transportation equity: Case studies from Canadian cities [healthy built environment webinar].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Feb 15. Available from: <https://ncceh.ca/events/upcoming-webinars/practices-and-inspiration-sustainable-transportation-equity-case-studies>.
3. Sanchez J, Desta B. **Predicting the environmental drivers of recreational water quality in Canada [webinar].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 Feb 29. Available from: <https://ncceh.ca/events/upcoming-webinars/predicting-environmental-drivers-recreational-water-quality-canada>.

## 1. AIR QUALITY

### INDOOR AIR

1. Dickson JM, Lee MJ, Jones K, Ebrahimi G, Henderson SB. **Monitoring temperature variability inside a healthcare facility during an extreme heat event using low-cost sensors.** Journal of Hospital Management and Health Policy. 2023 12 30;7. Available from: <https://jhmhp.amegroups.org/article/view/8312>.
2. Fauzi HN, Al-Athas SI, Rini JA. **Potential Pollutants and Indoor Air Quality Variables Association towards Implementation of the Breathing Architecture Concept: A Review.** IOP Conference Series: Earth and Environmental Science. 2024;1301(1):012011. Available from: <https://dx.doi.org/10.1088/1755-1315/1301/1/012011>.
3. Hon C-Y, Agababova M. **Pilot study: Occupational and public health consequences of elevated temperatures in restaurant kitchens.** Environ Health Rev. 2024;67(1):11-6. Available from: <https://pubs.ciphi.ca/doi/abs/10.5864/d2024-004>.
4. Lee MJ, Dickson JM, Greif O, Ho W, Henderson SB, Mallach G, Coker ES. **Using low-cost air quality sensors to estimate wildfire smoke infiltration into childcare facilities in British Columbia, Canada.** Environmental Research: Health. 2024;2(2):025002. Available from: <https://dx.doi.org/10.1088/2752-5309/ad1fd6>.
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## OUTDOOR AIR

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4. Health Canada. **Health impacts of air pollution in Canada in 2018.** Ottawa, ON: Health Canada; 2024 Mar. Available from: <https://www.canada.ca/en/health-canada/services/publications/healthy-living/health-impacts-air-pollution-2018.html>.
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#### RADON, OTHER

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## 2. FOOD

### FOOD SAFETY

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