

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 8 (1) JANUARY 2025



<p><u>AIR QUALITY</u></p> <ul style="list-style-type: none"> • Indoor air • Outdoor air • Radon, Other 	<p><u>CLIMATE CHANGE</u></p> <ul style="list-style-type: none"> • Extreme weather • Flooding • Sea level rise • Wildfires, Other 	<p><u>DISEASES, VECTORS, PESTS</u></p> <ul style="list-style-type: none"> • COVID-19 • Animal vectors • Insect vectors • Pests, Other
<p><u>FOOD</u></p> <ul style="list-style-type: none"> • Food safety • Food security • Growing food, Other 	<p><u>BUILT ENVIRONMENT</u></p> <ul style="list-style-type: none"> • Green & blue spaces • Housing • Noise • Planning & design • Transportation, Other 	<p><u>PUBLIC HEALTH FUNDAMENTALS</u></p> <ul style="list-style-type: none"> • Communication • Health promotion • Health impact assessment • Health equity • One Health, Other
<p><u>WATER</u></p> <ul style="list-style-type: none"> • Drinking water • Recreational water • Small water systems • Wastewater, Other 	<p><u>NON-CLIMATE RELATED DISASTERS</u></p> <ul style="list-style-type: none"> • Earthquakes • Marine • Terrestrial, Other 	<p><u>OTHER TOPICS</u></p> <ul style="list-style-type: none"> • Cannabis products • Tobacco, nicotine products • Ionizing, non-ionizing radiation • Personal services establishments, Other
<p><u>SPECIFIC POPULATIONS</u> (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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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.

EDITOR PICKS

Practical guidance for post wildfire cleanup [subject guide].

National Collaborating Centre for Environmental Health

“The resources listed here are intended to assist environmental public health professionals in advising on post-wildfire re-entry and cleanup.”



Wildfires and wildfire smoke [subject guide].

National Collaborating Centre for Environmental Health

“The resources assembled here are intended to assist public health practitioners, decision-makers, and the public by providing guidance regarding public health impacts, community preparedness, risk communication and response to wildfires and wildfire smoke.”



Wildfires and drinking water safety: understanding the risks and building resilience [blog].

Juliette O’Keeffe, Senior Scientist, NCCEH

“Wildfires pose a threat to drinking water safety and supply, both immediately following a fire, and in the months to years after. This blog outlines some of these challenges and identifies guidance on preparation, response, and recovery.”



Psychosocial impacts of disasters: resources for mitigation, response and recovery [subject guide].

National Collaborating Centre for Environmental Health

“This topic page presents a variety of resources introducing the concepts of community resilience and well-being and the types of interventions that can be used pre- and post disaster to build resilience, a list of tools and other resources to assist....”



Do-it-yourself (DIY) air cleaners: evidence on effectiveness and considerations for safe operation [evidence review].

Angela Eykelbosh

“A review of academic and technical literature showed that do-it-yourself (DIY) air cleaners performed similarly to commercial portable air cleaners in terms of...” more



Do-it-yourself (DIY) air cleaners: FAQs and additional resources.

Angela Eykelbosh

For additional WILDFIRE, SMOKE resources, please see [Wildfires, Other](#)

EDITOR PICKS

Community science toolkit for mosquito surveillance.

W Pons, N Elmieh, K Garrison, J Santos, A Sarkar, D Zalawadia in collaborating with National Collaborating Centre for Environmental Health

“This toolkit provides guidance on how to identify an approach and implement a community science project, understand the costs and logistics involved, and identify the aspects of community science programs that can enrich formal mosquito surveillance program.”

Quick guide - Community science toolkit for mosquito surveillance [4pg brochure]

Community sciences approaches in mosquito surveillance [project page]



Characterizing radon among public buildings and small/medium-sized businesses in a Canadian province [journal article].

LX Yang, TL Kirkham, L Boksman, A-M Nicol, PA Demers

“The Radon levels varied significantly based on municipality and background radon zone, highlighting the importance of geography in influencing radon levels. Radon levels also varied...”



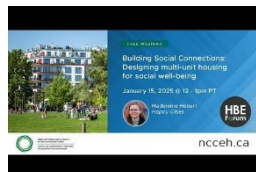
Ice arena inspection practice guide for indoor air quality management [webinar]. V Vecchiarelli

“A project team comprised of public health representatives and industry experts (i.e., Ontario Recreation Facilities Association) came together with the goal to create a practical public health inspector guide to ice arena indoor air quality inspections.”



Building social connections: designing multi-unit housing for social well-being [webinar]. M Hebert

“This session will explore how the design of multi-unit housing impacts neighbourly interactions and resident well-being. We’ll share actionable principles and insights to advocate for inclusive, connected communities.”



NCCEH eNews (Dec 2024): Avian influenza; food environments; more...

National Collaborating Centre for Environmental Health

This monthly eNews highlights recent environmental health publications and more!



December research scan [research scan].

National Collaborating Centre for Environmental Health



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED PUBLICATIONS

1. Pons W, Elmieh N, Garrison K, Santos J, Sarkar A, Zalawadia D in collaborating with National Collaborating Centre for Environmental Health. **Community science toolkit for mosquito surveillance**. Available from: <https://ncceh.ca/resources/videos-tools/community-science-toolkit-mosquito-surveillance>.
Also: Quick guide - Community science toolkit for mosquito surveillance [4pg brochure]
Also: Community sciences approaches in mosquito surveillance [project page]
2. Herbert M. **Building social connections: designing multi-unit housing for social well-being [Healthy Built Environment webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2025 Jan 15. Available from: <https://ncceh.ca/events/upcoming-webinars/building-social-connections-designing-multi-unit-housing-social-well-being>.
3. National Collaborating Centre for Environmental Health. **Dec research scan**. Vancouver, BC: NCCEH; 2024 Dec. Available from: <https://ncceh.ca/sites/default/files/2024-12/NCCEH%20Research%20Scan%20-202412.pdf>.
4. National Collaborating Centre for Environmental Health. **NCCEH eNews (Dec 2024): Avian flu, food environments; more...** Vancouver, BC: NCCEH; 2024 Dec. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=9iyfTOPaSEQ_1piGUvXYGshTiEhgDeJh6--3PaPsJ8OFvKkFIXC8M52XMfXyYbt4DJ9eu4ziEPk_0NHkupwdaJmcE5nak2zXf10q9g00CPJs75fv4ITBWVHiKbjvpdL-.
5. Vecchiarelli V. **Ice arena inspection practice guide for indoor air quality management [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2025 Jan 30. Available from: <https://ncceh.ca/events/upcoming-webinars/ice-arena-inspection-practice-guide-indoor-air-quality-management>.
6. Yang LX, Kirkham TL, Boksman L, Nicol A-M, Demers PA. **Characterizing radon among public buildings and small/medium-sized businesses in a Canadian province**. Atmosphere. 2025;16(1):21. Available from: <https://www.mdpi.com/2073-4433/16/1/21>.

1. AIR QUALITY

INDOOR AIR

1. Cheung HYW, Kumar P, Hama S, Emygdio APM, Wei Y, Anagnostopoulos L, et al. **Monitoring of indoor air quality at a large sailing cruise ship to assess ventilation performance and disease transmission risk**. Sci Total Environ. 2025;962:178286. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969724084444>.

2. HealthLink BC. **Indoor air quality: Combustion by-products.** HealthLink BC; 2025 Jan. Available from: <https://www.healthlinkbc.ca/sites/default/files/documents/hfile27c.pdf>.
3. Mustafa M, Cook MJ, McLeod RS. **A critical review of ventilation effectiveness in naturally ventilated spaces from the perspective of sustainability and health.** Build Environ. 2025;270:112471. Available from: <https://www.sciencedirect.com/science/article/pii/S036013232401312X>.
4. Vecchiarelli V, Scott M, Piche T, Milton J, Putnam B, Heywood P, et al. **Enhancing indoor air quality in ice arenas: Insights from a survey of operators.** Environ Health Rev. 2024;67(4):85-91. Available from: <https://pubs.ciph.ca/doi/abs/10.5864/d2024-021>.
5. Weinbrecht P. **Surface Emissions Of Volatile Organic Compounds From Surfaces During Use of UVC Irradiation Disinfection.** Fairless Hills, PA: UV Reporter; 2025. Available from: <https://uvreporter.com/page/2/>.

OUTDOOR AIR

1. Dales R, Jurgens D, Delic A, Cakmak S. **Associations between airborne algae, ambient air pollution and lung function in a cross-sectional Canadian population-based study.** Environ Res. 2025;267:120640. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935124025441>.
2. Mustansar T, van den Brekel L, Timmermans EJ, Agyemang C, Vaartjes I. **Air pollution exposure disparities among ethnic groups in high-income countries: A scoping review.** Environ Res. 2025;267:120647. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935124025519>.
3. Xu R, Stalter RM, Doubleday A, Naismith K, Schulte J, Kadlec M, et al. **Mortality associated with long-term PM2.5 exposure among overburdened communities in Washington State.** Air Quality, Atmos Health. 2025. Available from: <https://doi.org/10.1007/s11869-024-01664-6>.

RADON, OTHER

1. Evict Radon National Study team. **Cross-Canada survey of radon exposure in residential buildings of urban and rural communities.** Cross-Canada Radon Survey; 2024. Available from: <https://crosscanadaradon.ca/survey/#history>.

2. FOOD

FOOD SAFETY

1. Banaei G, Abass D, Tavakolpournegari A, Martín-Pérez J, Gutiérrez J, Peng G, et al. **Teabag-derived micro/nanoplastics (true-to-life MNPLs) as a surrogate for real-life exposure scenarios.**

- Chemosphere. 2024;368:143736. Available from:
<https://www.sciencedirect.com/science/article/pii/S0045653524026377>.
2. Bou-Mitri C, Dagher S, Makkawi A, Khreyss Z, Hassan HF. **Glyphosate in food: A narrative review.** Journal of Agriculture and Food Research. 2025;19:101643. Available from:
<https://www.sciencedirect.com/science/article/pii/S2666154325000146>.
 3. Fard NJH, Jahedi F, Turner A. **Microplastics and nanoplastics in tea: Sources, characteristics and potential impacts.** Food Chem. 2025;466:142111. Available from:
<https://www.sciencedirect.com/science/article/pii/S0308814624037610>.
 4. Food and Agriculture Association of the United Nations. **Microbiological risk assessment of viruses in foods Part 1: Food attribution, analytical methods and indicators. Meeting report.** Rome, Italy: FAO and WHO; 2024. Available from: <https://doi.org/10.4060/cd3396en>.
 5. Kerr A, Smith CR, Kandar R, Kearney A, Chau K, Adhikari B, et al. **Outbreak investigations of Salmonella and frozen raw breaded chicken: the mitigation of a significant public health issue in Canada.** Epidemiol Infect. 2024;152:e180. Available from:
<https://www.cambridge.org/core/product/93D7B5E16F81E563D65102496F76B16D>.
 6. Kirchner M, Palacios A, Cataldo N, Allen KL, Wellman A, Madad A, et al. **A Binational Sample-Initiated Retrospective Outbreak Investigation of Listeria monocytogenes Infections in the United States and Canada Linked to Enoki Mushrooms Imported from China 2022–2023.** J Food Prot. 2025;88(1):100413. Available from:
<https://www.sciencedirect.com/science/article/pii/S0362028X24001972>.
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 8. Nagarajan B, Cabrera A, Miller MR, Kirpalani A. **The impact of climate variation on the spread of Shiga toxin–producing E. coli.** Pediatr Nephrol. 2025;40(1):159-64. Available from:
<https://doi.org/10.1007/s00467-024-06508-0>.
 9. Provincial Health Services Authority, British Columbia Centre for Disease Control. **British Columbia Foodborne Illness Outbreak Response Protocol. Guide to Multi-Partner Enteric Outbreak Response in British Columbia.** Vancouver, BC: PHSA and BCCDC; 2024. Available from:
http://www.bccdc.ca/resource-gallery/Documents/BC_FIORP_2024.pdf.
 10. Sanchez K. **Metals Distribution in Roadside Soils and Himalayan Blackberries in Victoria, BC, Canada.** Victoria, BC: Royal Roads University; 2024. Available from:
<https://era.library.ualberta.ca/items/6edab27b-f59b-4328-ac38-71b9a1e4e328>.
 11. Traylor SD, Granek EF, Duncan M, Brander SM. **From the ocean to our kitchen table: anthropogenic particles in the edible tissue of U.S. West Coast seafood species.** Frontiers in Toxicology. 2024;6. Available from:
<https://www.frontiersin.org/journals/toxicology/articles/10.3389/ftox.2024.1469995>.
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FOOD SECURITY

1. Ahmed F, Moriarity RJ, Spence ND, Kataquapit G, Sutherland C, Charania NA, et al. **Adaptation in adversity: innovative approaches to food security amidst COVID-19 in a remote First Nations community in Canada.** BMC Public Health. 2024;24(1):3498. Available from: <https://doi.org/10.1186/s12889-024-21052-0>.
2. Fernández-Casal L, Karakaya Ayalp E, Öztürk SP, Navas-Gracia LM, Geçer Sargin F, Pinedo-Gil J. **The Quality Turn of Food Deserts into Food Oases in European Cities: Market Opportunities for Local Producers.** Preprints. 2024. Available from: <http://dx.doi.org/10.20944/preprints202412.1591.v1>.
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GROWING FOOD, OTHER

1. US Food and Drug Administration. **EPA Suggests Health Risk From Foods Grown on Land Fertilized by PFAS-Contaminated Biosolids.** Silver Spring, MD: US FDA; 2025 Jan 17. Available from: <https://www.food-safety.com/articles/10068-epa-suggests-health-risk-from-foods-grown-on-land-fertilized-by-pfas-contaminated-biosolids>.
2. Yadav A, Khare P. **The role of volatile organic compound emissions from aromatic crops in the management of bioaerosols at agricultural sites: An overview.** Journal of Hazardous Materials Advances. 2025;17:100574. Available from: <https://www.sciencedirect.com/science/article/pii/S2772416624001748>.

3. WATER

DRINKING WATER

1. British Columbia Ministry of Health. **Drinking Water Officers' Guide Consolidated Version.** Victoria, BC: Government of British Columbia; 2024 Feb. Available from: https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/waterquality/how-drinking-water-is-protected-in-bc/drinking_water_officers_guide_-_consolidated.pdf.
2. Health Canada. **Consultation: Draft Guidelines for Canadian Drinking Water Quality, Trihalomethanes.** Ottawa, ON: Government of Canada; 2025 Jan. Available from:

<https://www.canada.ca/en/health-canada/programs/consultation-draft-guidelines-canadian-drinking-water-quality-trihalomethanes.html>.

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4. Nesseth D. **Preparing for PFAS: The next chapter of water regulation in Canada.** ESE Magazine: 2024 Nov 29. Available from: <https://esemag.com/water/preparing-for-pfas-the-next-chapter-of-water-regulation-in-canada/>.
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7. Wang L, Fang Z, Zhou X, Cheng K, Ren Y, Li C, et al. **Health risk assessment via ingestion of disinfection by-products in drinking water.** Sci Rep. 2025;15(1):1793. Available from: <https://doi.org/10.1038/s41598-024-84094-9>.

RECREATIONAL WATER

1. Canadian Beachwater. **Beach Water Quality in Canada - Publications.** Toronto, ON: Toronto Metropolitan University; 2024; Available from: <https://www.canadianbeachwater.ca/publications.html>.
2. Chau KNM, Carroll K, Li X-F. **Swimming benefits outweigh risks of exposure to disinfection byproducts in pools.** J Environ Sci. 2025;152:527-34. Available from: <https://doi.org/10.1016/j.jes.2024.05.040>.
3. Desta BN, Sanchez J, Heasley C, Young I, Tustin J. **Environmental factors associated with Escherichia coli concentration at freshwater beaches on Lake Winnipeg, Manitoba, Canada.** PLOS Water. 2024;3(4):e0000143. Available from: <https://doi.org/10.1371/journal.pwat.0000143>.
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SMALL WATER SYSTEMS

1. Lee-Masi M, Coulter C, Chow SJ, Zaitchik B, Jacangelo JG, Exum NG, et al. **Two-year evaluation of Legionella in an aging residential building: Assessment of multiple potable water remediation**

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<https://www.sciencedirect.com/science/article/pii/S0048969724038579>.

WASTEWATER, OTHER

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4. CLIMATE CHANGE

EXTREME WEATHER

1. Aylett C. **Slow burn: the hidden costs of a warming world.** *International Affairs.* 2025;101(1):357-9. Available from: <https://doi.org/10.1093/ia/iiae291>.
2. Berg D. **Substance use and the climate emergency.** Ottawa, ON: Canadian Centre on Substance Use and Addiction; 2024. Available from: <https://www.ccsa.ca/sites/default/files/2024-02/Substance-Use-and-Climate-Change-en.pdf>.
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FLOODING

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SEA LEVEL RISE

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WILDFIRES, OTHER

Guidance, Rapid Reviews, Subject Guides, Tools

1. National Collaborating Centre for Environmental Health. **Psychosocial impacts of disaster: mitigation for mitigation, response and recovery [subject guide].** Vancouver, BC: NCCEH; 2023 Apr. Available from: <https://ncceh.ca/resources/subject-guides/psychosocial-impacts-disasters-resources-mitigation-response-and-recovery>.
2. National Collaborating Center for Environmental Health. **Wildfires and wildfire smoke [subject guide].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2024 May 8. Available from: <https://ncceh.ca/resources/subject-guides/wildfires-and-wildfire-smoke>.
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