2020 EH Scan



National Collaborating Centre for Environmental Health

Centre de collaboration nationale en santé environnementale

ENVIRONMENTAL HEALTH RESEARCH SCAN WITH COVID-19 SECTIONS VOL 4 (8) AUGUST 2020



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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. "We focus on health risks associated with the physical environment and identify evidence-based interventions to mitigate those risks." This review is not official or 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. How to access the items? Click on the link related to each entry and it should take you to the item. Not all links are open access; some are abstract links where paid journal subscription is required. **COVID-19 Publications** are listed in the sections above and there are also **COVID-19 Additional Topics** at the end of this issue.



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EDITOR PICKS

Role of Ventilation in Influencing COVID-19 Transmission Risk [blog]

Angela Eykelbosh, Environmental Health and Knowledge Translation Scientist, NCCEH

"The purpose of this blog is not to exhaustively review COVID-19 outbreaks (see LeClerc et al. 2020), but to examine a few key examples that provide insight into the role of ventilation in the pandemic."

Are Temperature Scanners just a lot of Hot Air? [blog] Juliette O'Keeffe, Environmental Health and Knowledge Translation Scientist, NCCEH

"[...] is the use of temperature scanners to detect a fever an effective means of preventing transmission of infectious diseases?...more"

Death Care during the COVID-19 Pandemic: Understanding the Public Health Risks

Juliette O'Keeffe, Environmental Health and Knowledge Translation Scientist, NCCEH

"A review of guidance across various public health agencies is summarized, highlighting the key precautions and risk reducing measures, as well as considerations for associated risks such as shortages of supplies, personnel, or storage space."

Environmental Public Health Guidance for Encampments during the COVID-19 Pandemic [guidance document] Jade Yehia (Island Health), completed under a secondment with NCCEH

"This guide features environmental health protection and planning related to issues encampments....more"

Kombucha with a Kick: Ethanol Content in Retail Brews Angela Eykelbosh, Environmental Health and Knowledge Translation Scientist, NCCEH

A Study of Alcohol Levels in Kombucha Products in British Columbia Lorraine McIntyre, Sung Sik Jang

Hand sanitizer contamination prompts more recalls during COVID-19 [blog]

Anne-Marie Nicol, Environmental Health and Knowledge Translation Scientist, NCCEH "Since May, Health Canada has issued and updated a series of recalls and advisories about specific brands and lots of hand sanitizers...more"















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ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED STAFF PUBLICATIONS

NCCEH

- 1. Eykelbosh A. Role of ventilation in influencing COVID-19 transmission risk [blog]. Vancouver, BC: National Collaborating Centre for Environmental Health; 2020 07 29 Jul 29. Available from: https://ncceh.ca/content/blog/role-ventilation-influencing-covid-19-transmission-risk.
- National Collaborating Centre for Environmental Health. NCCEH eNews (July 2020) : Climate change and new COVID-19 resources. Vancouver, BC: NCCEH; 2020 07 29 Jul. Available from: <u>https://tinyurl.com/yxt3rfjj</u>.
- National Collaborating Centres for Public Health. What is The National Collaborating Centres for Public Health (NCCPH)? Montreal, QC: NCCPH; 2020 Aug 5. Available from: <u>https://www.youtube.com/watch?v=nVrrTMs3sGo</u>.
- Nicol A-M. Hand sanitizer contamination prompts more recalls during COVID-19 [blog]. Vancouver, BC: National Collaborating Centre for Environmental Health; 2020 08 11 Aug 11. Available from: <u>https://ncceh.ca/content/blog/hand-sanitizer-contamination-prompts-more-recalls-during-covid-19</u>.
- 5. O'Keeffe J. **Death care during the COVID-19 pandemic: understanding the public health risks**. Environ Health Rev. 2020;63(2):40-7. Available from: <u>https://doi.org/10.5864/d2020-009</u>.
- O'Keeffe J. Are temperature scanners just a lot of hot air? [blog]. Vancouver, BC: National Collaborating Centre for Environmental Health; 2020 07 29 Jul 29. Available from: <u>https://ncceh.ca/content/blog/are-temperature-scanners-just-lot-hot-air</u>.
- Prairie Climate Centre. Climate Atlas of Canada: A resource for environmental public health [blog]. Vancouver, BC: National Collaborating Centre for Environmental Health; 2020 07 29 Jul 29. Available from: <u>https://ncceh.ca/content/blog/climate-atlas-canada-resource-environmentalpublic-health</u>.
- Yehia J. Environmental public health guidance for encampments during the COVID-19 pandemic [guidance document]. Vancouver, BC: National Collaborating Centre for Environmental Health; 2020 07 29 Jul 29. Available from: <u>https://ncceh.ca/documents/guide/environmentalpublic-health-guidance-encampments-during-covid-19-pandemic</u>.

BCCDC

- 1. Henderson SB. **The COVID-19 Pandemic and Wildfire Smoke: Potentially Concomitant Disasters**. Am J Public Health. 2020;110(8):1140-2. Available from: <u>https://pubmed.ncbi.nlm.nih.gov/32552018</u>
- McIntyre L, Jang SS. A study of alcohol levels in kombucha products in British Columbia. Vancouver, BC: British Columbia Centre for Disease Control; 2020 Mar. Available from: <u>http://www.bccdc.ca/resource-</u> gallery/Documents/Educational%20Materials/EH/FPS/Food/Kombucha%20report%202020.pdf.
- McVea DA, Cumming E, Rahim T, Kosatsky T. A descriptive analysis of blood mercury test results in British Columbia to identify excessive exposures. Can J Public Health. 2020. Available from: <u>https://doi.org/10.17269/s41997-020-00340-3</u>.



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INDIGENOUS ENVIRONMENTAL HEALTH

- Grace K-A, Lynda W. Community-based pandemic preparedness: COVID-19 procedures of a Manitoba First Nation community. Journal of Community Safety and Well-Being. 2020;5(2). Available from: <u>https://journalcswb.ca/index.php/cswb/article/view/131</u>.
- National Collaborating Centre for Indigenous Health. Podcast: Voices from the Field Episode 12: Adapting to COVID-19: Reflections on staying connected to traditions and ceremonies during a pandemic (James Makokis). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 May. Available from: <u>https://www.nccih.ca/495/Podcast_Voices from the Field 12 - Adapting to COVID-</u> <u>19_Reflections on staying connected to traditions and ceremonies during a pandemic.nccih?id=300</u>.
- National Collaborating Centre for Indigenous Health. Podcast: Voices from the Field Episode 13: Inuit risk and response to COVID-19 (Aluki Kotierk). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 May. Available from: <u>https://www.nccih.ca/495/Podcast_Voices from the Field 13 - Inuit risk and response to COVID-19 .nccih?id=301</u>.
- National Collaborating Centre for Indigenous Health. Podcast: Voices from the Field Episode 14: Respecting our kiteyak during COVID-19 (Doris Young). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 May. Available from: <u>https://www.nccih.ca/495/Podcast_Voices_from_the_Field_14_-</u> <u>Doris Young_on_respecting_our_kiteyak_during_COVID-19.nccih?id=302</u>.
- National Collaborating Centre for Indigenous Health. Infectious questions: an infectious diseases public health podcast (episode 30): Public Health Considerations for COVID-19 in Evacuations of Northern Indigenous Communities (Emily Dicken). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 July. Available from: <u>https://www.nccih.ca/495/Podcast_Public Health Considerations for COVID-</u> 19 in Evacuations of Northern Indigenous Communities.nccih?id=306.
- National Collaborating Centre for Indigenous Health. Infectious questions: an infectious diseases public health podcast (episode 31): Trends in substance use during COVID-19 (Erin Knight). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 July. Available from: <u>https://infectious.libsyn.com/ep-31-trends-in-substance-use-during-covid-19-2019-ncov-pt-16</u>.
- National Collaborating Centre for Indigenous Health. Podcast: Voices from the Field Episode 16: Supporting grief, mourning and mental health during COVID-19 (Jeffrey Ansloos). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 July. Available from: <u>https://www.nccih.ca/docs/general/PODCAST-VoicesFromField-Ansloos-Transcript-EN.pdf</u>.
- National Collaborating Centre for Indigenous Health. Podcast: Voices from the Field Episode 15: Homelessness and mental health among Indigenous People (Jino Distasio, Lucille Bruce, Betty Edel). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 May. Available from: <u>https://www.nccih.ca/docs/general/PODCAST-VoicesFromField-Distasio-Bruce-Edel-Transcript-EN.pdf</u>.
- National Collaborating Centre for Indigenous Health. Infectious questions: an infectious diseases public health podcast (episode 28): Update on COVID-19 and Children (2019-nCoV, Pt 13) (Joanne Langley). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 Jun. Available from:



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https://podcasts.apple.com/us/podcast/ep-28-update-on-covid-19-and-children-2019-ncov-pt-13/id1095847486?i=1000477205034.

- National Collaborating Centre for Indigenous Health. Infectious questions: an infectious diseases public health podcast (episode 23): Livestock, farming and One Health considerations for COVID-19 (2019-nCoV) (Simon Otto). Prince George, BC: National Collaborating Centre for Indigenous Health, University of Northern British Columbia; 2020 Apr. Available from: <u>https://infectious.libsyn.com/ep-23-livestock-farming-and-one-health-considerations-for-covid-19-2019ncov-pt-8</u>.
- Richmond C, Steckley M, Neufeld H, Kerr RB, Wilson K, Dokis B. First Nations Food Environments: Exploring the Role of Place, Income, and Social Connection. Current Developments in Nutrition. 2020;4(8). Available from: <u>https://doi.org/10.1093/cdn/nzaa108</u>.
- 12. Yukon-Kuskokwin Health Corporation. **COVID-19 resources**. Bethel, AK: Yukon-Kuskokwin; 2020. Available from: <u>https://www.ykhc.org/covid-19/resources/</u>.

AGRICULTURAL OPERATIONS

BIOLOGICAL AGENTS

BUILT ENVIRONMENT

- Centre for Active Transportation. Active transportation actions in response to COVID-19. Toronto, ON: TCAT; 2020. Available from: <u>https://www.tcat.ca/resources/active-transportation-actions-in-response-to-covid-19/</u>.
- 2. Condon D. **Pandemic effect: community centres**. Canadian Architects; 2020 [Aug]; Available from: <u>https://www.canadianarchitect.com/pandemic-effect-community-centres/</u>.
- 3. Davies R. **Pandemic effect: long-term care homes**. Canadian Architects; 2020 [Aug]; Available from: <u>https://www.canadianarchitect.com/pandemic-effect-long-term-care-homes/</u>.
- Elavarasan RM, Pugazhendhi R. Restructured society and environment: A review on potential technological strategies to control the COVID-19 pandemic. Sci Total Environ. 2020:138858. Available from: <u>https://doi.org/10.1016/j.scitotenv.2020.138858</u>.
- 5. O'Sullivan F. Britain Is Creating a Government Organization Devoted to Biking and Walking. Bloomberg City Lab; 2020 Jul 29. Available from: <u>https://www.bloomberg.com/news/articles/2020-07-</u>29/why-the-u-k-is-investing-big-in-cycling-and-walking?srnd=citylab&ct=t(RSS_EMAIL_CAMPAIGN).
- Perrino T, Lombard J, Rundek T, Wang K, Dong C, Gutierrez CM, et al. Neighbourhood greenness and depression among older adults. Br J Psychiatry. 2019;215(2):476-80. Available from: https://www.cambridge.org/core/article/neighbourhood-greenness-and-depression-among-olderadults/DFB02DA7FF7EDC6E2D715A67DC45ADE7.
- Pinheiro MD, Luís NC. COVID-19 Could Leverage a Sustainable Built Environment. Sustainability. 2020;12(14). Available from: <u>https://www.mdpi.com/2071-1050/12/14/5863/htm</u>.
- 8. Santopinto Ye, Stewart G. **Pandemic effect: housing retrofits**. Canadian Architects; 2020 [Aug]; Available from: <u>https://www.canadianarchitect.com/pandemic-effect-housing-retrofits/</u>.
- Winters M. Readiness for Shared Micromobility: Public Perceptions in Metro Vancouver. Burnaby, BC: Simon Fraser University, Faculty of Health Sciences, Cities Health and Active Transportation Research Lab,; 2020 Aug. Available from: <u>https://chatrlab.ca/projects/micromobility/</u>.



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- 10. Winters M, Tremblay S, Davidson G, Davidson T. **Readiness for Shared Micromobility: Public Perceptions in Metro Vancouver. Focus Groups**. Burnaby, BC: Simon Fraser University, Faculty of Health Sciences, Cities Health and Active Transportation Research Lab,; 2020 Apr. Available from: <u>https://drive.google.com/file/d/176ZuhYnEf6_bmqvgL-_XtR9CVoxKbcZM/view</u>.
- 11. Young DR, Cradock AL, Eyler AA, Fenton M, Pedroso M, Sallis JF, et al. **Creating Built Environments That Expand Active Transportation and Active Living Across the United States: A Policy Statement From the American Heart Association**. Circulation. 2020. Available from: <u>https://www.ahajournals.org/doi/abs/10.1161/CIR.00000000000878</u>.
- 12. Zhao W, Li H, Zhu X, Ge T. Effect of Birdsong Soundscape on Perceived Restorativeness in an Urban Park. Int J Environ Res Public Health. 2020;17(16):5659. Available from: https://www.mdpi.com/1660-4601/17/16/5659.

CHEMICAL AGENTS – METALS, GENERAL

General

- 1. Berghuis SA, Roze E. **Prenatal exposure to PCBs and neurological and sexual/pubertal development from birth to adolescence**. Curr Probl Pediatr Adolesc Health Care. 2019;49(6):133-59. Available from: <u>http://www.sciencedirect.com/science/article/pii/S1538544219300409</u>.
- Dickman J, Schreder E, Uding N. Packaged in Pollution: Are food chains using PFAS in packaging? Seattle, WA: Toxic-Free Future; 2020 Aug. Available from: <u>https://toxicfreefuture.org/packaged-in-pollution/</u>.
- Kassotis CD, Vandenberg LN, Demeneix BA, Porta M, Slama R, Trasande L. Endocrine-disrupting chemicals: economic, regulatory, and policy implications. The Lancet Diabetes & Endocrinology. 2020;8(8):719-30. Available from: <u>http://www.sciencedirect.com/science/article/pii/S2213858720301285</u>.
- McVea DA, Cumming E, Rahim T, Kosatsky T. A descriptive analysis of blood mercury test results in British Columbia to identify excessive exposures. Can J Public Health. 2020. Available from: <u>https://doi.org/10.17269/s41997-020-00340-3</u>.
- Prata JC, Silva AL, Walker TR, Duarte AC, Rocha-Santos T. COVID-19 pandemic repercussions on the use and management of plastics. Environ Sci Tech. 2020;54(13):7760-5. Available from: <u>https://covid19.elsevierpure.com/da/publications/covid-19-pandemic-repercussions-on-the-use-and-management-of-plas</u>.
- Zuiderveen EAR, Slootweg JC, de Boer J. Novel brominated flame retardants A review of their occurrence in indoor air, dust, consumer goods and food. Chemosphere. 2020;255. Available from: <u>https://doi.org/10.1016/j.chemosphere.2020.126816</u>.

CHEMICAL AGENTS – PESTICIDES

CHEMICAL AGENTS – SHALE GAS



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CHILDREN'S ENVIRONMENTAL HEALTH

- Abdollahi E, Haworth-Brockman M, Keynan Y, Langley JM, Moghadas SM. Simulating the effect of school closure during COVID-19 outbreaks in Ontario, Canada. BMC Med. 2020;18(1):230. Available from: <u>https://www.ncbi.nlm.nih.gov/pubmed/32709232</u>.
- 2. Baysun S, Akar MN. Weight Gain in Children during the Covid-19 Quarantine Period. J Paediatr Child Health. 2020. Available from: <u>http://www.ncbi.nlm.nih.gov/pubmed/32779316</u>.
- Black E, Ferdig R, Thompson LA. K-12 Virtual Schooling, COVID-19, and Student Success. JAMA Pediatr. 2020. Available from: <u>http://www.ncbi.nlm.nih.gov/pubmed/32780093</u>.
- British Columbia Centre for Disease Control, British Columbia Ministry of Health. COVID-19 Public Health Guidance for K-12 School Settings. Vancouver, BC: BCCDC; 2020 Jul 29. Available from: http://www.bccdc.ca/Health-Info-Site/Documents/COVID_public_guidance/Guidance-k-12-schools.pdf.
- Chanchlani N, Buchanan F, Gill PJ. Addressing the indirect effects of COVID-19 on the health of children and young people. CMAJ. 2020;192(32):E921-E7. Available from: <u>http://www.ncbi.nlm.nih.gov/pubmed/32586838</u>.
- Guney M, Kismelyeva S, Akimzhanova Z, Beisova K. Potentially toxic elements in toys and children's jewelry: A critical review of recent advances in legislation and in scientific research. Environmental pollution (Barking, Essex : 1987). 2020;264:114627. Available from: <u>https://doi.org/10.1016/j.envpol.2020.114627</u>.
- 7. Health Canada. **Risk mitigation tool for child and youth settings operating during the COVID-19 pandemic**. Ottawa, ON: Health Canada; 2020. Available from: <u>https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/guidance-documents/covid-19-risk-mitigation-tool-child-youth-settings-operating-during-pandemic.html.</u>
- Liu CH, Doan SN. Psychosocial Stress Contagion in Children and Families During the COVID-19 Pandemic. Clin Pediatr (Phila). 2020;59(9-10):853-5. Available from: <u>https://doi.org/10.1177%2F0009922820927044</u>.
- Ma X, Longley I, Gao J, Salmond J. Assessing schoolchildren's exposure to air pollution during the daily commute - A systematic review. Sci Total Environ. 2020;737:N.PAG-N.PAG. Available from: https://doi.org/10.1016/j.scitotenv.2020.140389.
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- 11. National Collaborating Centre for Methods and Tools. **Rapid Evidence Review: What is the specific** role of daycares and schools in COVID-19 transmission? Winnipeg, MB: NCCMT; 2020 Jul 24. Available from: <u>https://www.nccmt.ca/knowledge-repositories/covid-19-rapid-evidence-service</u>.
- 12. Public Health Ontario. Negative Impacts of Community-Based Public Health Measures During a Pandemic (e.g., COVID-19) on Children and Families. Toronto, ON: PHO; 2020 Jun. Available from: https://www.publichealthontario.ca/-/media/documents/ncov/cong/2020/06/covid-19-negative-impacts-public-health-pandemic-families.pdf?la=en.
- 13. Rees N, Fuller R. The Toxic Truth: Children's Exposure to Lead Pollution Undermines a Generation of Future Potential. New York, NY: UNICEF and Pure Earth; 2020 Jul. Available from: <u>https://www.unicef.org/sites/default/files/2020-07/The-toxic-truth-children%E2%80%99s-exposure-to-lead-pollution-2020.pdf</u>.
- 14. Yoshikawa H, Wuermli AJ, Britto PR, Dreyer B, Leckman JF, Lye SJ, et al. Effects of the Global Coronavirus Disease-2019 Pandemic on Early Childhood Development: Short- and Long-Term



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Risks and Mitigating Program and Policy Actions. The Journal of pediatrics. 2020;223:188-93. Available from: <u>https://doi.org/10.1016/j.jpeds.2020.05.020</u>.

CLIMATE CHANGE

- 1. Benmarhnia T, Zhao X, Wang J, Macdonald M, Chen H. **Evaluating the potential public health impacts of the Toronto cold weather program**. Environ Int. 2019;127:381-6. Available from: <u>http://www.sciencedirect.com/science/article/pii/S0160412018327156</u>.
- Bustinza R. COVID-19: Adaptation of Public Health Recommendations for Extreme Heat in Accordance with Physical Distancing Recommendations. Montreal, QC: INSPQ; 2020 Jul. Available from: <u>https://www.inspq.qc.ca/en/publications/3024-extreme-heat-physical-distancingadaptation-of-PH-recommendations-covid19</u>.
- Carleton TA, Amir Jina, Delgado MT, Greenstone M, Houser T, Solomon M. Hsiang, et al. Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits. Cambridge, MA National Bureau of Economic Research; 2020 Jul. Available from: <u>https://www.nber.org/papers/w27599</u>.
- 4. Interior Health. Heat Alert & Response Planning for Interior BC Communities: a toolkit. Kelowna, BC: Interior Health; 2020 Jul. Available from: <u>https://www.interiorhealth.ca/YourEnvironment/Emergency/ExtremeHeat/Documents/Heat%20Alert%20and%20Response%20Planning%20Toolkit%20for%20Interior%20BC%20Communities.pdf</u>.
- 5. National Institute for Environmental Health Sciences. **Climate Change and Human Health Literature Portal**. Rockville, MD: NIEHS. Available from: <u>https://tools.niehs.nih.gov/cchhl/index.cfm</u>.
- Project Drawdown. Climate change table of solutions. San Francisco, CA: Project Drawdown; 2020. Available from: <u>https://www.drawdown.org/solutions/table-of-solutions</u>.
- 7. US Centers for Disease Control and Prevention Climate and Health Program. Preparing for the regional health impacts of climate change in the United States. Atlanta, GA: US Centers for Disease Control and Prevention, National Center for Environmental Health; 2020 Jul. Available from: <u>https://www.cdc.gov/climateandhealth/docs/Health Impacts Climate Change-508 final.pdf</u>.
- Zavaleta-Cortijo C, Ford JD, Arotoma-Rojas I, Lwasa S, Lancha-Rucoba G, García PJ, et al. Climate change and COVID-19: reinforcing Indigenous food systems. The Lancet Planetary Health. Available from: <u>https://doi.org/10.1016/S2542-5196(20)30173-X</u>.

COMMUNICABLE AND INFECTIOUS DISEASES

See Covid 19 subsections in this issue and in the COVID-19 Additional Topics and Guidance section at the end of this issue (e.g., Cleaning)

 Burkom H, Loschen W, Wojcik R, Holtry R, Punjabi M, Siwek M, et al. ESSENCE, the Electronic Surveillance System for the Early Notification of Community-Based Epidemics. medRxiv. 2020:2020.08.14.20175398. Available from: https://www.medrain.org/comtent/incomtent/2020/00/17/2020.08.14.20175308.full.adf

https://www.medrxiv.org/content/medrxiv/early/2020/08/17/2020.08.14.20175398.full.pdf.

2. Yawney J, Gadsden SA. A Study of the COVID-19 Impacts on the Canadian Population. IEEE Access. 2020;8:128240-9.



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DRINKING WATER

 Koelmans AA, Mohamed Nor NH, Hermsen E, Kooi M, Mintenig SM, De France J. Microplastics in freshwaters and drinking water: Critical review and assessment of data quality. Water Res. 2019;155:410-22. Available from: <u>http://www.sciencedirect.com/science/article/pii/S0043135419301794</u>.

EMERGENCY PREPAREDNESS

- Alberta Health Services. Coping with emergencies environmental public health. Edmonton, AB: AHS; 2020. Available from: <u>https://www.albertahealthservices.ca/eph/Page15235.aspx</u>.
- British Columbia First Nations Energy and Mining Council. Mount Polley Disaster Six Years Later is B.C. Any Safer? Vancouver, BC: BC First Nations Energy and Mining Council; 2020 Aug. Available from: <u>http://fnemc.ca/wp-content/uploads/2015/07/Mt.-Polley-Disaster-Is-BC-Any-Safer-July-29.pdf</u>.
- Canuel M, Gosselin P, Duhoux A, Brunet A, Lesage A. Post-Disaster Mental Health Impacts Surveillance Toolkit. Montreal, QC: institut national de santé publique; 2020 Jul 27. Available from: <u>https://www.inspq.qc.ca/en/publications/2676</u>.
- Canuel M, Gosselin P, Duhoux A, Brunet A, Lesage A. Post-Disaster Mental Health Impacts Surveillance Toolkit. Montreal, QC: Institut national de santé publique (INSPQ); 2020 Jul 27. Available from: <u>https://www.inspq.qc.ca/en/publications/2676</u>.
- 5. Henderson SB. **The COVID-19 Pandemic and Wildfire Smoke: Potentially Concomitant Disasters**. Am J Public Health. 2020;110(8):1140-2. Available from: <u>https://pubmed.ncbi.nlm.nih.gov/32552018</u>.
- National Collaborating Centre for Environmental Health. Psychosocial impacts: resources for mitigation, response and recovery. Vancouver, BC: National Collaborating Centre for Environmental Health; 2019 Sep 25. Available from: <u>https://ncceh.ca/environmental-health-incanada/health-agency-projects/psychosocial-impacts-resources-mitigation</u>.
- Sorathiya RRA. Community clean air shelters: community centre's response to wildfire smoke events in Vancouver: University of British Columbia; 2020. Available from: <u>https://open.library.ubc.ca/clRcle/collections/ubctheses/24/items/1.0390364</u>.

ENVIRONMENTAL HEALTH SURVEILLANCE

 World Health Organization. Status of environmental surveillance for SARS-CoV-2 virus. Geneva, Switzerland: WHO; 2020 Aug. Available from: <u>https://www.who.int/news-</u> room/commentaries/detail/status-of-environmental-surveillance-for-sars-cov-2-virus.

ENVIRONMENTAL PLANNING

FOOD

Safety

 Giuliani A, Zuccarini M, Cichelli A, Khan H, Reale M. Critical Review on the Presence of Phthalates in Food and Evidence of Their Biological Impact. Int J Environ Res Public Health. 2020;17(16):5655. Available from: <u>https://www.mdpi.com/1660-4601/17/16/5655</u>.



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ZOONOSES



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COVID-19 ADDITIONAL TOPICS & GUIDANCE



CONTENTS

- <u>GUIDANCE</u> (cleaning, face masks, hand hygiene, more)
- HOMELESS, VULNERABLE POPULATIONS, HOUSING
- MENTAL HEALTH
- <u>MULTI-UNIT BUILDINGS</u>
- OCCUPATIONAL GUIDANCE, POLICY, MISC
- PUBLIC FACILITIES, FITNESS CENTRES, CHOIRS, FUNERALS, etc
- SURVIVAL TIME
- TRANSIT, TRANSPORTATION
- TRANSMISSION



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