

August 2, 2022

Delivered by email and filed on RESS

Nancy Marconi
Registrar
Ontario Energy Board
2300 Yonge Street, 27th Floor
Toronto, ON, M4P 1E4

Dear Ms. Marconi:

**Re: Ontario Energy Board File No. EB-2022-0012
Sun-Canadian Pipe Line Application for Leave to Construct NPS 12 East Sixteen
Mile Creek Pipeline Replacement Project in the Town of Milton, Ontario
Revised HDI Cost Claim**

We are counsel to the Haudenosaunee Development Institute (“**HDI**”). Please find enclosed HDI’s revised cost claim documents in EB-2022-0012 pursuant to the Ontario Energy Board’s *Practice Direction on Cost Awards* (“the “**Practice Direction**”).

A discrepancy between the legal dockets and the claimed hours on the form submitted on July 21, 2022 was brought to our attention on July 29, 2022. The enclosed documents have been revised to remedy this discrepancy.

Please let us know if there are any additional documents required for this corrected filing. We appreciate the opportunity given to revise and thank you for your patience.

Yours truly,

GILBERT’S LLP



Jack MacDonald

Ontario Energy Board COST CLAIM FOR HEARINGS



Affidavit and Summary of Fees and Disbursements

This form should be used by a party to a hearing before the Board to identify the fees and disbursements that form the party's cost claim. Paper and electronic copies of this form and itemized receipts must be filed with the Board and served on one or more other parties as directed by the Board in the applicable Board order. Please ensure all required (yellow-shaded) fields are filled in and the Affidavit portion is signed and sworn or affirmed.

Instructions

- Required data input is indicated by yellow-shaded fields. Formulas are embedded in the form to assist with calculations.
- All claims must be in Canadian dollars. If applicable, state exchange rate and country of initial currency.

Rate: Country:
- A separate "Detail of Fees and Disbursements Being Claimed" (comprising a "Statement of Fees Being Claimed" and a "Statement of Disbursements Being Claimed") is required for each lawyer, analyst/consultant and articling student/paralegal. However, only one "Summary of Fees and Disbursements" covering the whole of the party's cost claim should be provided.
- The cost claim must be supported by a completed Affidavit signed by a representative of the party.
- A CV for each consultant/analyst must be attached unless provided to the Board as prescribed on the Cost Award Tariff.

Except as provided in section 7.03 of the Practice Direction on Cost Awards, itemized receipts must be provided.

File # EB- 2022-0012	Process: Application for Leave to Construct NPS 12 East Sixteen
Party: Haudenosaunee Development Institute	Affiant's Name: Jack MacDonald
HST Number: N/A	HST Rate Ontario: 0.00%
Full Registrant <input type="checkbox"/> Unregistered <input type="checkbox"/> Other <input type="checkbox"/>	Qualifying Non-Profit <input type="checkbox"/> Tax Exempt <input checked="" type="checkbox"/>

Affidavit

I, Jack MacDonald, of the City/Town of Toronto
 in the Province/State of Ontario, swear or affirm that:

1. I am a representative of the above-noted party (the "Party") and as such have knowledge of the matters attested to herein.
2. I have examined all of the documentation in support of this cost claim, including the attached "Summary of Fees and Disbursements Being Claimed", "Statement(s) of Fees Being Claimed" and "Statement(s) of Disbursements Being Claimed".
3. The attached "Summary of Fees and Disbursements Being Claimed", "Statement(s) of Fees Being Claimed" and "Statement(s) of Disbursements Being Claimed" include only costs incurred and time spent directly for the purposes of the Party's participation in the Ontario Energy Board process referred to above.
4. This cost claim does not include any costs for work done, or time spent, by a person that is an employee or officer of the Party as described in sections 6.05 and 6.09 of the Board's Practice Direction on Cost Awards.

Signature of Affiant

Sworn or affirmed before me at the City/Town of Toronto,
 in the Province/State of Ontario, on August 2, 2022.
(date)

Ontario Energy Board
COST CLAIM FOR HEARINGS



Affidavit and Summary of Fees and Disbursements

Commissioner for taking Affidavits

File # EB- 2022-0012 Process: Application for Leave to Construct NPS 12 East Sixteen

Party: Haudenosaunee Development Institute

Summary of Fees and Disbursements Being Claimed

Legal/consultant/other fees	\$	41,276.00
Disbursements	\$	-
HST	\$	585.00
Total Cost Claim	\$	41,861.00

Payment Information

Make cheque payable to: The Haudenosaunee Development Institute

Send payment to this address: Sunrise Ct
Ohswéken, ON
NOA 1M0

Ontario Energy Board
COST CLAIM FOR HEARINGS
Affidavit and Summary of Fees and Disbursements



Ontario Energy Board COST CLAIM FOR HEARINGS



Detail of Fees and Disbursements Being Claimed

File # EB- <u>2022-0012</u>	Process: <u>Application for Leave to Construct NPS 12 East Sixte</u>
Party: <u>Haudenosaunee Development Institute</u>	Service Provider Name: <u>Tim Gilbert</u>
SERVICE PROVIDER TYPE (check one)	Year Called to Bar
Legal Counsel <input checked="" type="checkbox"/>	<u>1990</u>
Articling Student/Paralegal <input type="checkbox"/>	
Consultant <input type="checkbox"/>	
Analyst <input type="checkbox"/>	
For Consultant/Analyst: <input type="checkbox"/> CV attached	Completed Years Practising/Years of Relevant Experience
<input type="checkbox"/> CV provided within previous 24 months	<u>32</u>
	Hourly Rate: <u>\$330</u>
	HST Rate Charged (enter %): <u>0.0%</u>

Statement of Fees Being Claimed					
	Hours	Hourly Rate	Subtotal	HST	Total
Pre-hearing Conference					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
Technical Conference					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
Interrogatories					
Preparation	1.50	\$ 330.00	\$ 495.00	\$ -	\$ 495.00
Responses	3.80	\$ 330.00	\$ 1,254.00	\$ -	\$ 1,254.00
Issues Conference					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
ADR - Settlement Conference					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
Proposal Preparation		\$ 330.00	\$ -	\$ -	\$ -
Argument					
Preparation	50.30	\$ 330.00	\$ 16,599.00	\$ -	\$ 16,599.00
Oral Hearing					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
Other Conferences					
Preparation		\$ 330.00	\$ -	\$ -	\$ -
Attendance		\$ 330.00	\$ -	\$ -	\$ -
Case Management					
			\$ -	\$ -	\$ -
TOTAL SERVICE PROVIDER FEES			\$ 18,348.00	\$ -	\$ 18,348.00

**Ontario Energy Board
COST CLAIM FOR HEARINGS**



Detail of Fees and Disbursements Being Claimed

File # EB- 2022-0012

Process: Application for Leave to Construct NPS 12 East Sixte

Party: Haudenosaunee Development Ir

Service Provider Name: Tim Gilbert

Statement of Disbursements Being Claimed			
	Net Cost	HST	Total
Scanning/Photocopy		\$ -	\$ -
Printing		\$ -	\$ -
Courier		\$ -	\$ -
Telephone/Fax		\$ -	\$ -
Transcripts		\$ -	\$ -
Travel: Air		\$ -	\$ -
Travel: Car		\$ -	\$ -
Travel: Rail		\$ -	\$ -
Travel (Other):		\$ -	\$ -
Parking		\$ -	\$ -
Taxi		\$ -	\$ -
Accommodation		\$ -	\$ -
Meals		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
TOTAL DISBURSEMENTS:	\$ -	\$ -	\$ -

Ontario Energy Board COST CLAIM FOR HEARINGS



Detail of Fees and Disbursements Being Claimed

File # EB- <u>2022-0012</u>	Process: <u>Application for Leave to Construct NPS 12 East Sixte</u>
Party: <u>Haudenosaunee Development Institute</u>	Service Provider Name: <u>Jack MacDonald</u>
SERVICE PROVIDER TYPE (check one)	Year Called to Bar
Legal Counsel <input checked="" type="checkbox"/>	<input type="text" value="2020"/>
Articling Student/Paralegal <input type="checkbox"/>	Completed Years Practising/Years of Relevant Experience
Consultant <input type="checkbox"/>	<input type="text" value="2"/>
Analyst <input type="checkbox"/>	Hourly Rate: <input type="text" value="\$170"/>
For Consultant/Analyst: <input type="checkbox"/> CV attached	HST Rate Charged (enter %): <input type="text" value="0.0%"/>
<input type="checkbox"/> CV provided within previous 24 months	

Statement of Fees Being Claimed					
	Hours	Hourly Rate	Subtotal	HST	Total
Pre-hearing Conference					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
Technical Conference					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
Interrogatories					
Preparation	11.10	\$ 170.00	\$ 1,887.00	\$ -	\$ 1,887.00
Responses	8.10	\$ 170.00	\$ 1,377.00	\$ -	\$ 1,377.00
Issues Conference					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
ADR - Settlement Conference					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
Proposal Preparation		\$ 170.00	\$ -	\$ -	\$ -
Argument					
Preparation	89.20	\$ 170.00	\$ 15,164.00	\$ -	\$ 15,164.00
Oral Hearing					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
Other Conferences					
Preparation		\$ 170.00	\$ -	\$ -	\$ -
Attendance		\$ 170.00	\$ -	\$ -	\$ -
Case Management			\$ -	\$ -	\$ -
TOTAL SERVICE PROVIDER FEES			\$ 18,428.00	\$ -	\$ 18,428.00

**Ontario Energy Board
COST CLAIM FOR HEARINGS**



Detail of Fees and Disbursements Being Claimed

File # EB- 2022-0012

Process: Application for Leave to Construct NPS 12 East Sixte

Party: Haudenosaunee Development Ir

Service Provider Name: Jack MacDonald

Statement of Disbursements Being Claimed			
	Net Cost	HST	Total
Scanning/Photocopy	-	\$ -	\$ -
Printing	-	\$ -	\$ -
Courier	-	\$ -	\$ -
Telephone/Fax	-	\$ -	\$ -
Transcripts	-	\$ -	\$ -
Travel: Air	-	\$ -	\$ -
Travel: Car	-	\$ -	\$ -
Travel: Rail	-	\$ -	\$ -
Travel (Other):	-	\$ -	\$ -
Parking	-	\$ -	\$ -
Taxi	-	\$ -	\$ -
Accommodation	-	\$ -	\$ -
Meals	-	\$ -	\$ -
Other:	-	\$ -	\$ -
Other:	-	\$ -	\$ -
Other:	-	\$ -	\$ -
TOTAL DISBURSEMENTS:	\$ -	\$ -	\$ -

Ontario Energy Board COST CLAIM FOR HEARINGS



Detail of Fees and Disbursements Being Claimed

File # EB- <u>2022-0012</u>	Process: <u>Application for Leave to Construct NPS 12 East Sixte</u>
Party: <u>Haudenosaunee Development Institute</u>	Service Provider Name: <u>Aidan Hollis</u>
SERVICE PROVIDER TYPE (check one)	Year Called to Bar
Legal Counsel <input type="checkbox"/> Articling Student/Paralegal <input type="checkbox"/> Consultant <input checked="" type="checkbox"/> Analyst <input type="checkbox"/>	<input style="width: 100px; height: 20px;" type="text" value=""/>
	Completed Years Practising/Years of Relevant Experience
	<input style="width: 100px; height: 20px;" type="text" value="20"/>
	Hourly Rate: <input style="width: 80px; height: 20px;" type="text" value="\$250"/>
For Consultant/Analyst: <input checked="" type="checkbox"/> CV attached	HST Rate Charged (enter %): <input style="width: 80px; height: 20px;" type="text" value="13.0%"/>
<input type="checkbox"/> CV provided within previous 24 months	

Statement of Fees Being Claimed					
	Hours	Hourly Rate	Subtotal	HST	Total
Pre-hearing Conference					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
Technical Conference					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
Interrogatories					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Responses		\$ 250.00	\$ -	\$ -	\$ -
Issues Conference					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
ADR - Settlement Conference					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
Proposal Preparation		\$ 250.00	\$ -	\$ -	\$ -
Argument					
Preparation	18.00	\$ 250.00	\$ 4,500.00	\$ 585.00	\$ 5,085.00
Oral Hearing					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
Other Conferences					
Preparation		\$ 250.00	\$ -	\$ -	\$ -
Attendance		\$ 250.00	\$ -	\$ -	\$ -
Case Management					
			\$ -	\$ -	\$ -
TOTAL SERVICE PROVIDER FEES			\$ 4,500.00	\$ 585.00	\$ 5,085.00

Ontario Energy Board
COST CLAIM FOR HEARINGS



Detail of Fees and Disbursements Being Claimed

File # EB- 2022-0012

Process: Application for Leave to Construct NPS 12 East Sixte

Party: Haudenosaunee Development Ir

Service Provider Name: Aidan Hollis

Statement of Disbursements Being Claimed			
	Net Cost	HST	Total
Scanning/Photocopy		\$ -	\$ -
Printing		\$ -	\$ -
Courier		\$ -	\$ -
Telephone/Fax		\$ -	\$ -
Transcripts		\$ -	\$ -
Travel: Air		\$ -	\$ -
Travel: Car		\$ -	\$ -
Travel: Rail		\$ -	\$ -
Travel (Other):		\$ -	\$ -
Parking		\$ -	\$ -
Taxi		\$ -	\$ -
Accommodation		\$ -	\$ -
Meals		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
Other:		\$ -	\$ -
TOTAL DISBURSEMENTS:	\$ -	\$ -	\$ -

Aidan Hollis

Department of Economics
University of Calgary
2500 University Drive
Calgary, T2N 1N4 Canada

Office Tel: (403) 220-5861
Facsimile: (403) 220-5861
e-mail: ahollis@ucalgary.ca

Education

1990 – 1996 Ph.D., Economics, University of Toronto
Dissertation: The Application of Economic Theory to Competition Policy
1989 – 1990 M.A., Economics, University of Toronto
1982 – 1985 M.A., English, Cambridge University

Professional Experience

2016 – President and Director, Incentives for Global Health
2009 – Professor (with tenure), University of Calgary
2008 – 2016 Vice President and Director, Incentives for Global Health
2003 – 2009 Associate Professor (with tenure), University of Calgary
2003 – 2004 T.D. MacDonald Chair of Industrial Economics, Competition Bureau, Industry Canada, Ottawa
1996 – 2003 Assistant Professor, University of Calgary
1994 – 1995 Instructor, University of Toronto
1987 – 1989 Loans Officer, Midland Bank Seoul Branch
1985 – 1987 Trainee, Midland Bank International Division, London

Awards

Honours

2021 – Fellow, Global Justice Program, Yale University
2018 – 2020 Associate Professor (Status only), Faculty of Pharmacy, University of Toronto

- 2013 - 2014 Assistant Professor (Status only), Faculty of Pharmacy, University of Toronto
- 2008-13 Adjunct Professor, Centre for Applied Philosophy and Public Ethics, Charles Sturt University, Canberra, Australia
- 2006-9 Research Fellow, Institute for Advanced Policy Research
- 2005-6 Academic Director, Centre for Regulatory Economics, Van Horne Institute
- 2004 “Eminent Scientist of the Year” in the field of Health Economics for Canada, as chosen by International Research Promotion Council (www.irpc.org)
- 2002 - 6 Research Fellow, Institute of Health Economics

Research Grants

CIHR Project Grant “Evaluating and Informing Canada’s Proposed Pharmaceutical Price Regulations” (\$760,000) [Coapplicant] 2022-2025.

CIHR Network for Global Governance Research on Infectious Diseases “One Health Network for the Global Governance of Infectious Diseases and Antimicrobial Resistance” (\$2,000,000) [Principal Applicant] 2019-2023

Alberta Major Innovation Fund, “Antimicrobial Resistance One Health Consortium”, (\$6,315,000) [Principal Investigator] 2018-2022.

JPIAMR 5th Call Project Grant. €473,068 [Principal Investigator] 2017-2020

CIHR Project Grant (\$328,950) [Principal Investigator] 2017-2020

CIHR Project Grant (\$240,975) [Co-investigator] 2017-2020

CIHR Dissemination Grant (\$25,000) [Co-investigator] 2014

[European Research Council, \(€1,924,738\) \[Co-investigator\] 2014-2019](#)

Government of Quebec (\$50,000) [Principal Investigator] 2012

CIHR Team Grant (\$1,450,166) [Co-investigator] 2011-2016

CIHR Development Grant (\$15,000) [Principal Investigator] 2010-2011

CIHR/Health Canada Team Grant (\$1,500,000) [Co-investigator] 2009-2013

SSHRC Standard Research Grant (\$45,000) [Principal Investigator] 2007-2010

Centre for Regulatory Affairs (\$6,000) 2006

Institute of Health Economics Research Grant (\$5,500) 2005

University of Calgary SSHRC Development Grant (\$1,000) 2002

SSHRC Standard Research Grant (\$50,450) [Principal Investigator] 1999-2002

University Research Grants Committee, Starter Grant (\$9,376) 1997 - 1999

University of Calgary “Research Excellence Envelope” (\$6,000) 1996 -1997

Scholarships

SSHRC Fellowship, 1992 - 1994

Ontario Graduate Scholarship, 1991 - 1992

Connaught Fellowship, 1990 - 1992

Tallow Chandlers' Award, 1984

Publications

Books

- [1] Hollis, Aidan, and Thomas Pogge, *The Health Impact Fund: Making New Medicines Accessible for All*, Incentives for Global Health, 2008.
- [2] Walls, W.D., and Aidan Hollis, eds., *The Alberta Power Market*, Calgary: Van Horne Institute, 2007.

Peer-Reviewed Journal Articles

(* indicates student)

- [1] Beall R, Moradpour J, Hollis A. "The private versus public contribution to the biomedical literature during the COVID-19, Ebola, H1N1, and Zika public health emergencies." *PLoS One*, <https://doi.org/10.1371/journal.pone.0258013>.
- [2] *McCubbin, K, Anholt, R, DeJong E, Hollis A, *et al.* "Knowledge gaps in the understanding of antimicrobial resistance in Canada." *Frontiers in Public Health*, 2021; 9, 1523. <https://doi.org/10.3389/fpubh.2021.726484>
- [3] Beall R, Kesselheim A, Hollis A. "Pre-market development times for innovative vaccines – to what extent are the COVID-19 vaccines outliers?" *Clinical Infectious Diseases*, <https://doi.org/10.1093/cid/ciab389>.
- [4] Beall R, Hollis A, Kesselheim A, Spackman E. "Reimagining pharmaceutical market exclusivities: Should the duration of guaranteed monopoly periods be value-based?" *Value in Health*, 2021; 24(9): 1328-1334. <https://doi.org/10.1016/j.jval.2021.04.1277>
- [5] Lang R, Benham J, *Atabati O, Hollis A, *et al.* "Attitudes, Behaviours and Barriers to Public Health Measures For COVID-19: A Survey to Inform Public Health Messaging." *BMC Public Health*, 2021; 21 (765), <https://doi.org/10.1186/s12889-021-10790-0>.
- [6] *Moradpour J, Hollis A. "The economic theory of cost-effectiveness thresholds in health: domestic and international implications." *Health Economics*, 2021; 30(5): 1139-1151. <https://doi.org/10.1002/hec.4247>.

- [7] *Rahman S, Lindahl O, Morel C, Hollis A. "Market Concentration of New Antibiotic Sales." *Journal of Antibiotics*, 2021; 74(6): 421-423, <https://doi.org/10.1038/s41429-021-00414-5>.
- [8] *Sahragardjoonegani B, Beall R, Kesselheim A, Hollis A. "Repurposing existing drugs for new uses: A cohort study of the frequency of FDA-granted new indication exclusivities since 1997." *Journal of Pharmaceutical Policy and Practice*, 2021; 14: 3, <https://doi.org/10.1186/s40545-020-00282-8>.
- [9] Zhang W, Sun H, Guh D, Lynd L, Hollis A, Grootendorst P, Anis A. "The impact of tiered pricing framework on generic entry in Canada." *International Journal of Health Policy and Management*, 2020. <https://doi.org/10.34172/ijhpm.2020.215>
- [10] *Sharma A, Leal J, Kim J, Pearce C, Pillai D, Hollis A. "The Cost of Contact Precautions: A Systematic Analysis." *Canadian Journal of Infection Control*, 2020; 35(4): 163-169. (Winner of the 2020 IPAC Canada Editorial Award & \$1000)
- [11] *Moradpour J, Hollis A. "Patient income and health innovation." *Health Economics*, 2020; 29(12): 1795-1803. <https://doi.org/10.1002/hec.4160>.
- [12] Beall R, Hollis A. "COVID-19's unprecedented global clinical trial mobilization: Higher, faster, stronger." *Drug Discovery Today*, 2020. <https://doi.org/10.1016/j.drudis.2020.08.001>
- [13] Zhang W, Guh D, Sun H, Lynd L, Hollis A, Grootendorst P, Anis A. "Factors Associated with Drug Shortages in Canada: A Retrospective Cohort Study." *CMAJ Open*, 2020; 8(3): E535-E544. <https://doi.org/10.9778/cmajo.20200036>
- [14] Morel C, Lindahl O, Harbarth S, de Kraker M, Edwards S, Hollis A. "Industry incentives and antibiotic resistance: an introduction to the antibiotic susceptibility bonus" *Journal of Antibiotics*, 2020; 73: 421-428. <https://doi.org/10.1038/s41429-020-0300-y>
- [15] *Sharma A, Pillai D, Lu M, *Doolan C, Leal J, Kim J, Hollis A. "Impact of Isolation Precautions on Quality of Life: A Meta-Analysis" *Journal of Hospital Infection*, 2020; 105(1): 35-42. <https://doi.org/10.1016/j.jhin.2020.02.004>
- [16] Beall R, Clement F, Hollis A, Hardcastle L. "How will recent trade agreements that extend market protections for brand-name prescription pharmaceuticals impact expenditures and generic access in Canada?" *Health Policy* 2019;123(11), 1251-1258.
- [17] Hollis A. "Orphan Drug Pricing and Costs: A Case Study of Kalydeco and Orkambi." *Healthcare Policy* 2019;15(1), 70-80.
- [18] *Jayasundara K, Hollis A, Krahn M, Mamdani M, Hoch J, Grootendorst P. "Estimating the clinical cost of drug development for orphan versus non-orphan drugs." *Orphanet Journal of Rare Diseases* 2019;14:12. doi.org/10.1186/s13023-018-0990-4

- [19] *Memedovich KA, Manns B, Beall R, Hollis A, Clement F. "The impact of pharmaceutical rebates on patients' drug expenditures" *Canadian Medical Association Journal* 2019;191(11) E308-E312.
- [20] Hollis A. "Bill C-30: Who wins and who loses in Canada's pharmaceutical patent battles?" *Expert Opinion On Therapeutic Patents*, 2018; 28(1): 1-3.
- [21] Hollis, A. and P. Grootendorst, "A comparison of mechanisms for setting generic drug prices in Canada." *Journal of Generic Medicines*, 2017, Jan;13(1):19-27.
- [22] Hollis, A., "Sustainable Financing of Innovative Therapies: A Review of Approaches." *PharmacoEconomics*, 2016; 34(10):971-80. doi: 10.1007/s40273-016-0416-x.
- [23] Hollis, A., "Generic drugs in Canada: an examination of tiered pricing." *Canadian Medical Association Journal*, DOI:10.1503/cmaj.150395. 2015, Oct; 187(14):1033-1034
- [24] Hollis, A. and P. Grootendorst, "Canada's new generic pricing policy: a reasoned approach to a challenging problem." *Healthcare Policy*, 2015 Aug;11(1):10-14.
- [25] Hollis, A. and P. Maybarduk, "Antibiotic resistance is a tragedy of the commons that necessitates global cooperation." *Journal of Law, Medicine & Ethics* 2015; 43(2): S33-S37.
- [26] *Shajarizadeh, A, P. Grootendorst, and A. Hollis, "Newton's first law for pharmacies: why entry order matters for generics." *International Journal of the Economics of Business* 2015; 22(2):201-217.
- [27] Roberts, E, M. Herder, and A Hollis, "Fair pricing of 'old' orphan drugs: considerations for Canada's orphan drug policy." *Canadian Medical Association Journal* 2015; 187(6):422-425.
- [28] *Shajarizadeh, A. and A. Hollis, "Price-Cap Regulation, Uncertainty and the Price Evolution of New Pharmaceuticals." *Health Economics* 2015; 24: 966-977.
- [29] Hollis, A. and Z. *Ahmed, "The path of least resistance: paying for antibiotics in non-human uses." *Health Policy* 2014, 118: 264-270.
- [30] *Shajarizadeh, A. and A. Hollis, "Delays in the Submission of New Drugs in Canada." *Canadian Medical Association Journal* 187: E47-51, 2014, cmaj.130814.
- [31] Hollis, A. and Z. *Ahmed, "Preserving Antibiotics, Rationally." *New England Journal of Medicine* 2013, 369(26): 2474-2476.
- [32] Fellows, GK, and A. Hollis, "Funding innovation for treatment for rare diseases: adopting a cost-based yardstick approach." *Orphanet Journal of Rare Diseases* 2013, 8:180.
- [33] Hollis, A., "Synthetic Biology: Ensuring the Greatest Value." *Systems and Synthetic Biology*, 7(3): 99-105, 2013.

- [34] Grootendorst, P., R. Bouchard, and A. Hollis, "Canada's Laws on Pharmaceutical Intellectual Property: The Case for Fundamental Reform." *Canadian Medical Association Journal*, 184(5): 543-549, 2012.
- [35] Grootendorst, P. and A. Hollis, "The 2011 Canada-European Union Comprehensive Economic and Trade Agreement: an economic impact assessment of the EU's proposed pharmaceutical intellectual property provisions." *Journal of Generic Medicines*, 8(2): 81-103.
- [36] Grootendorst, P., A. Edwards, A. Hollis, D. Levine, and T. Pogge, "New approaches to rewarding pharmaceutical innovation." *Canadian Medical Association Journal*, 183(6): 681-685, 2011.
- [37] Bouchard, R., Cahoy, D., Domeij, B., Dutfield, G., Faunce, T., Hollis, A., Jones, P., Khader, F., Lexchin, J., Nam, H. and Serrano, J., "Structure-Function Analysis of Global Pharmaceutical Linkage Regulations". *Minnesota Journal of Law, Science & Technology* 12(2): 391-457, 2011.
- [38] Pogge, T., and A. Hollis, "Epilogue - New Drugs for Neglected Diseases." *Cambridge Quarterly of Healthcare Ethics* 20(2), 329-334, 2011.
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Presentations in Conferences and Universities

I have made over 100 invited presentations at conferences and universities.

Teaching

I have taught graduate and undergraduate courses in microeconomics, industrial organization, and economic regulation at the Universities of Calgary and Toronto.

Supervision of Graduate Students

Current students

- Sakib Rahman, PhD thesis [Supervisor], The Resistance: The Economics of Antibiotic Usage
- Jason Lee, PhD thesis. University of Toronto [Thesis committee member]. TBD

Past students

- Babak Sahragardjoonegani, MA thesis [Supervisor] 2021. "When the truth hurts: ordinary selling price regulation in a monopoly."
- Anuj Sharma, MA thesis [Supervisor] 2020. "Economic Analysis of Near-Patient Testing for *C. difficile* Implemented in a Large Hospital in Calgary, Canada."
- Javad Moradpour, PhD thesis [Supervisor], 2020, "Economics of Pharmaceutical Innovation."
- Tianjiao (Hilary) Bao, MA thesis [Supervisor] 2018, "Solutions for the Resource Adequacy Issue: Capacity Market, Scarcity Pricing, or Single Buyer Model".
- Robin Lau, PhD thesis, University of Alberta [Thesis committee member] 2017. "Policy Analysis of the Continuous Subcutaneous Insulin Infusion – Access With Evidence Development Scheme in Alberta: A Cost Effectiveness, Value of Information and SWOT Analysis"
- Ali Shajarizadeh, PhD thesis [Supervisor] 2016, "Dynamic pricing in pharmaceutical markets."

- G. Kent Fellows, PhD thesis [Supervisor] 2015, "Select Issues in Applied Regulatory Theory."
- Ethar Ismael, MPharm, University of Toronto, 2013 "Generic drug pricing and substitution in private drug plans in Canada." [Thesis committee member]
- John MacCormack, PhD thesis, 2012 "Prices, Reliability of Supply and Large Scale Wind Generation in Electricity Markets" [Thesis committee member]
- Kent Fellows, MA thesis, 2010, Negotiated Settlements [Supervisor]
- L. So, PhD thesis, 2009, "Microeconomic analyses of health care." [Co-supervisor]
- E. Sawatzky, MEd project, 2009, "The effect of patent duration on pharmaceutical R&D investment." [Supervisor]
- M. Amery, MA thesis, 2007, "A more efficient method for picking standby reserves in the Alberta power market." [Co-supervisor]
- M. Tepczynska, MA thesis, 2003, "An Economic Analysis of the Regulating Reserves Market in Alberta." [Supervisor]
- W. Brown, MEd project, 2002, "Strategic Issues in the Electrical Power Generation Industry." [Supervisor]
- H. Wang, MA thesis, "An Empirical Study of Economies of Scale in the Chinese Railway System." [Supervisor]
- R. Williams, MA thesis, 2002, "Williams on Electricity." [Supervisor]
- K Aksomitis, MA thesis, 2002, "Strategic Behavior in the Alberta Electricity Market." [Supervisor]

I have also acted as examiner for several PhD candidates at University of Calgary, University of Alberta, University of Toronto, and McMaster University.

Other Professional Activities

- Member, Expert Advisory Group, [Global AMR R&D Hub](#). 2019-2021.
- Member, World Health Organization [Guideline Development Group on the use in food animals of critically important antimicrobial agents for human medicine](#), 2016-17.
- I have acted as referee for books, institutes, and granting agencies (Research Council of Norway, Netherlands Organization for Scientific Research, Agence Nationale de Recherche de France, Social Science and Humanities Research Council of Canada, Canadian Institute for Health Research, National Science Foundation, Rockefeller Foundation), and for over twenty journals (including *American Economic Review*, *Canadian Journal of Economics*, *Health Affairs*, *Health Economics*, *International Journal of Industrial Organization*, *Journal of Economics & Management Strategy*, *Journal of Health Economics*, *Journal of Industrial Economics*, *Journal of Political Economy*, *Management Science*, *Quarterly Journal of Economics*, *RAND Journal of Economics*, and *World Development*).

- I have provided economic commentary from time to time on television news programs and in newspapers.
- Member of the Patented Medicine Prices Review Board's Working Group on Therapeutic Substitution, 2007-8.
- Member of Pfizer Canada Health Technology Assessment Advisory Board, 2010.
- Member of Pfizer Canada Intellectual Property Advisory Board, 2012.
- I have provided evidence in cases before the Federal Court, Federal Court of Appeals, the Supreme Court of Canada, the Ontario Superior Court of Justice, the Competition Tribunal, and the Alberta Energy and Utilities Board, and have consulted for firms, consumer groups, and governments.
- I have acted as an external referee for tenure and promotion decisions at York University, the University of Alberta, Harvard University, University of Waterloo, and Dalhousie University.

Community Service

- President, Board of Directors, [Amici String Program Association](#), 2009-2012.
- [Brentwood](#) Girls U-12 soccer coach, 2008, 2009

Current as of May 12, 2022

HOLLIS ECONOMIC ANALYSIS LTD

3100 Conrad Dr. N.W., Calgary, Alberta, T2L 1B4 Canada

Mr Tim Gilbert
Gilberts LLP
Toronto

May 11, 2022

Dear Mr Gilbert,

I attach an invoice for work performed by Hollis Economic Analysis Ltd relating mainly to preparation of an affidavit concerning the Nanfan treaty on behalf of HDI.

The principal tasks are detailed on the invoice, which I am sending by email only. (If you require additional information, please let me know by email at aidanhollis@gmail.com. Please mark to my attention.)

Yours truly,

Kumudini Hollis
Business Manager
Hollis Economic Analysis Ltd

HOLLIS ECONOMIC ANALYSIS LTD

3100 Conrad Dr. N.W., Calgary, Alberta, T2L 1B4 Canada

Invoice

Mr Tim Gilbert
Gilberts LLP
Toronto

Our Reference No: 2022-03

May 11, 2022

Item:

<ul style="list-style-type: none">• Conference calls• Analysis of Haldimand proclamation• Analysis of Nanfan treaty rights• Drafting of an affidavit <p>details attached</p>	\$6,437.50
HST (13%)	\$836.88
Total Due	\$7274.38

Due upon receipt.

Please make cheques payable to **Hollis Economic Analysis Ltd.**

BN: **844351908RT0001**

Date	Minutes	Activity
[REDACTED]	[REDACTED]	[REDACTED]
2022-05-03	15	call with TG and TD
2022-05-04	180	Review of cases Preliminary analysis, concall with TG and Gilberts HDI
2022-05-05	180	team
2022-05-06	240	Research and write draft of Nanfan analysis
2022-05-07	210	Complete first draft of Nanfan analysis
2022-05-08	60	concall with HDI team and Detlor
2022-05-09	30	Work on edits
2022-05-10	135	Concall with HDI team and Doolittle; revised draft
2022-05-11	30	Concall with Gilberts HDI team; edits

Total minutes	1545
Hours	25.75
Invoice	\$ 6,437.50
HST (13%)	\$ 836.88
Total invoice	\$ 7,274.38