

Elson Advocacy

February 21, 2023

BY RESS

Nancy Marconi
Registrar
Ontario Energy Board
2300 Yonge Street, Suite 2700, P.O. Box 2319
Toronto, Ontario M4P 1E4

Dear Ms. Marconi:

Re: EB-2022-0157 – Enbridge Gas Inc. – Panhandle Regional Expansion Project

Enclosed please find the cost claim of Environmental Defence in the above matter.

This claim includes costs for the evidence of Dr. McDiarmid. These costs were below the estimated amount and were very reasonable in light of the value provided. The OEB approved a cost estimate of \$7,000 to \$14,000 for the report, plus 5 to 15% for additional steps such as a technical conference. The cost for Dr. McDiarmid's report totaled \$6,545 (plus tax), with an additional \$1,360 (plus tax) for interrogatories. Both components totalled \$7,905 (plus tax).

We estimated between \$2,000 and \$4,000 for the incremental counsel costs in relation to the preparation of Dr. McDiarmid's evidence. The actual cost came out on the low end of that range - \$2,871 (plus tax).

The claim includes time expended to draft submissions of Environmental Defence. These submissions were not ultimately filed because the proceeding was put on hold by Enbridge. We began preparing these submissions prior to receipt of Enbridge's submissions because the timelines for submissions was tight and many aspects of Enbridge's application did not require clarification from Enbridge submissions.

We respectfully submit that the costs are reasonable and request that they be reimbursed in full.

Yours truly,



Kent Elson

EB-2022-0157 : 1 : Kent Elson

COST CLAIM NUMBER
1133

SUBMISSION DEADLINE DATE
February 23, 2023

CLAIM STATUS
Approved by Finance

EB#
EB-2022-0157: Facilities: Leave to Construct
(New): Enbridge Gas Inc.

OTHER EB#S

PHASE #*
1

INTERVENOR
Elson, Kent; +1 (416) 906-7305
kent@elsonadvocacy.ca

INTERVENOR COMPANY*
Environmental Defence Canada
Inc., Toronto: Corporation

INTERVENOR TYPE
Full Registrant

HST RATE ONTARIO
13.00

EXCHANGE RATE

COUNTRY

HST NUMBER
872151923RT0001

LATE SUBMISSION ALLOWED
No

EXTENSION DEADLINE DATE

PARTICIPANTS

New	Non-Filing Participant First, Last Name	Filing Participant	Total (\$)	Total Participant Hours	Participant Claim Status
No	,	Montgomery, Amanda; +1 (416) 906-7305 amanda@elsonadvocacy.ca	57.63	0.30	Submitted
No	,	Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	17,695.80	54.00	Submitted
Yes	Dr. Heather , McDiarmid		8,932.65	46.50	Submitted

ATTACHMENTS

Attachment	Document Type	Claim Type	Import Message
ED_LtrCostClaim_20230221.pdf	Cover Letter		
ED EB-2022-0157 Cost Claim 022120231731.pdf			

EB-2022-0157 : 1 : Kent Elson

COST CLAIM NUMBER 1133	SUBMISSION DEADLINE DATE February 23, 2023	CLAIM STATUS Approved by Finance
EB# EB-2022-0157: Facilities: Leave to Construct (New): Enbridge Gas Inc.	OTHER EB#S	PHASE #* 1
INTERVENOR Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	INTERVENOR COMPANY* Environmental Defence Canada Inc., Toronto: Corporation	INTERVENOR TYPE Full Registrant
HST RATE ONTARIO 13.00	EXCHANGE RATE	COUNTRY
HST NUMBER 872151923RT0001	LATE SUBMISSION ALLOWED No	EXTENSION DEADLINE DATE

PARTICIPANTS

New	Non-Filing Participant First, Last Name	Filing Participant	Total (\$)	Total Participant Hours	Participant Claim Status
No	,	Montgomery, Amanda; +1 (416) 906-7305 amanda@elsonadvocacy.ca	57.63	0.30	Submitted
No	,	Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	17,695.80	54.00	Submitted
Yes	Dr. Heather , McDiarmid		8,932.65	46.50	Submitted

TOTAL LEGAL/CONSULTANT/OTHER FEES 23,616.00	TOTAL DISBURSEMENTS 0.00	TOTAL HST 3,070.08
------------------------------------------------	-----------------------------	-----------------------

TOTAL CLAIM 26,686.08	TOTAL AMOUNT AWARDED
--------------------------	----------------------

TOTAL HOURS CLAIMED 100.80	TOTAL HOURS DISALLOWED
-------------------------------	------------------------

REASON FOR DISALLOWANCE	REASON FOR DISALLOWANCE - 2	REASON FOR DISALLOWANCE - 3
----------------------------	--------------------------------	--------------------------------

MAKE CHEQUE PAYABLE TO
Elson Advocacy In Trust

SEND PAYMENT TO ADDRESS 1062 College Street Toronto, Ontario M6H1A9	ATTENTION
------------------------------------------------------------------------------	-----------

SUBMIT SECTION

I am a representative of the Party. I have examined all of the documentation in support of this cost claim. The costs incurred and time spent are directly related to the Party's participation in the OEB Process referred to above.

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 section 6.05 and 6.09 of the OEB's Practice Direction on Cost Awards.

The information (fees and disbursements) filed in this cost claim is complete and accurate and in accordance with the OEB's Practice Direction for Cost Awards and Appendix A, the Cost Awards Tariff.

EB-2022-0157 : 1 : Kent Elson

COST CLAIM NUMBER
1133

SUBMISSION DEADLINE DATE
February 23, 2023

CLAIM STATUS
Approved by Finance

EB#
EB-2022-0157: Facilities: Leave to Construct
(New): Enbridge Gas Inc.

OTHER EB#S

PHASE #*
1

INTERVENOR
Elson, Kent; +1 (416) 906-7305
kent@elsonadvocacy.ca

INTERVENOR COMPANY*
Environmental Defence Canada
Inc., Toronto: Corporation

INTERVENOR TYPE
Full Registrant

HST RATE ONTARIO
13.00

EXCHANGE RATE

COUNTRY

HST NUMBER
872151923RT0001

LATE SUBMISSION ALLOWED
No

EXTENSION DEADLINE DATE

PARTICIPANTS

New	Non-Filing Participant First, Last Name	Filing Participant	Total (\$)	Total Participant Hours	Participant Claim Status
No	,	Montgomery, Amanda; +1 (416) 906-7305 amanda@elsonadvocacy.ca	57.63	0.30	Submitted
No	,	Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	17,695.80	54.00	Submitted
Yes	Dr. Heather , McDiarmid		8,932.65	46.50	Submitted

SUBMITTED BY
Kent Elson

DATE SUBMITTED
February 21, 2023

Amanda Montgomery**CASE**EB-2022-0157: Facilities: Leave
to Construct (New): Enbridge Gas
Inc.**COST CLAIM**EB-2022-0157 : 1 : Kent
Elson**INTERVENOR NAME**Elson, Kent; +1 (416)
906-7305
kent@elsonadvocacy.ca**PARTICIPANT****CLAIM STATUS**

Submitted

FILING PARTICIPANTMontgomery, Amanda; +1 (416)
906-7305
amanda@elsonadvocacy.ca**NEW****PARTICIPANT**

No

NON-FILING**PARTICIPANT F. NAME****NON-FILING****PARTICIPANT L. NAME****SERVICE PROVIDER TYPE***

Legal Counsel

YEAR CALLED TO BAR

2020

**COMPLETED YEARS
PRACTICING/YEARS OF
RELEVANT EXPERIENCE***

3

HOURLY RATE

170

HST RATE CHARGED*

13.00

**CV STATUS (FOR
CONSULTANT/ANALYST)**

CV Required

LAST CV DATE**OVERRIDE****HOURLY RATE**

False

HST NUMBER

872151923RT0001

HEARINGS

Yes

CONSULTATIONS

No

DISBURSEMENTS

No

HEARINGS

Hearings Hours		Hearings Subtotal (\$)		Hearings Total Tax (\$)		Hearings Total (\$)	
0.30		51.00		6.63		57.63	
<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>	
Review Application and Evidence							
Review Application and Evidence	0.30	170	51.00	13.00	6.63	57.63	
Discovery							
Preparation of Interrogatories		170		13.00			
Review Interrogatory Responses		170		13.00			
Technical Conference Preparation		170		13.00			
Technical Conference Attendance		170		13.00			
Technical Conference Follow Up		170		13.00			
Issues List							
Preparation		170		13.00			
Attendance at Issues Conference		170		13.00			
Intervenor Evidence							
Preparation		170		13.00			
Interrogatory Responses		170		13.00			
Preparation of Witness(es) for Attendance at Hearing		170		13.00			
Settlement Conference / ADR							
Preparation		170		13.00			
Attendance		170		13.00			
Preparation of Settlement Proposal		170		13.00			
Attendance at Presentation to Panel		170		13.00			
Oral Hearing							
Preparation		170		13.00			
Attendance at Oral Hearing		170		13.00			
Submissions							
Written Submissions		170		13.00			
Oral Submissions		170		13.00			
Attendance at Oral Submissions		170		13.00			
Other Attendance							
Other Attendance		170		13.00			
Communication							
With Client		170		13.00			
With Other Parties		170		13.00			
Motions							
Preparation of Motion(s) Materials		170		13.00			
Prepare Submissions on the Motion(s)		170		13.00			
Attendance at Hearing on Motion(s)		170		13.00			
Confidentiality							
Preparation of Application for Confidentiality		170		13.00			
Prepare Submissions on Confidentiality		170		13.00			
Attendance at Hearing on Confidentiality		170		13.00			
Decision							
Review		170		13.00			
Rate Order							
Review		170		13.00			
Prepare Submission on Rate Order		170		13.00			
Total Service Provider Fees							
Total Service Provider Fees:	0.30		51.00		6.63	57.63	

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
ElsonAdvocacy_InvoiceAndDockets.pdf	Time Docket	

Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document</u>	<u>Claim Type</u>	<u>Import Message</u>
ElsonAdvocacy_InvoiceAndDockets.pdf		Time Docket	Hearings	

Elson Advocacy

Invoice

Environmental Defence
33 Cecil Street
Toronto, ON
M5T 1N1

February 15, 2023

File #: 0149
Inv #: 1227

RE: Enbridge Panhandle Pipeline Leave to Construct Application

DATE	DESCRIPTION	HOURS	LAWYER
Jul 6, 2022	Review Enbridge panhandle application; various correspondence	0.30	KE
Jul 12, 2022	Draft correspondence to A. Montgomery	0.20	KE
	EGI - Panhandle Project - Draft and submit intervention request letter	0.30	AM
Aug 30, 2022	Review PO and diarize deadlines	0.10	KE
Sep 1, 2022	Review application; draft interrogatories	4.20	KE
Sep 14, 2022	Various correspondence	0.10	KE
Sep 23, 2022	Draft correspondence to EGI re access to IRs; draft correspondence to potential expert; various correspondence re intervenor coordination	1.40	KE
Sep 26, 2022	Review IRs; various correspondence	1.70	KE
Sep 27, 2022	Review interrogatories; call with potential expert re geothermal greenhouses; review materials re use of geothermal in greenhouses; various correspondence re intervenor coordination; prepare letter seeking approval of proposed evidence of Dr. McDiarmid	4.00	KE
Oct 3, 2022	Review correspondence from the OEB	2.50	KE

requesting detail re evidence proposal; draft response

Oct 4, 2022	Call with Board Staff re OEB questions; review and finalize letter to the OEB; various correspondence	0.70	KE
Oct 5, 2022	Prepare for technical conference; prepare correspondence responding to EG's objection to Dr. McDiarmid's evidence	3.80	KE
Oct 6, 2022	Attend technical conference	5.30	KE
Oct 7, 2022	Prepare for and attend technical conference	2.20	KE
Oct 14, 2022	Review procedural order and diarize deadlines; various correspondence; call with Dr. McDiarmid (.7)	1.00	KE
Oct 17, 2022	Various correspondence	0.20	KE
Oct 19, 2022	Review undertaking responses; draft correspondence to H. McDiarmid (.1)	0.60	KE
Oct 20, 2022	Review EBO 134; review draft materials from H. McDiarmid (.5)	0.90	KE
Oct 21, 2022	Call with H. McDiarmid	1.00	KE
Oct 25, 2022	Review and comment on Dr. McDiarmid report; correspondence with Dr. McDiarmid	0.50	KE
Oct 26, 2022	Review and comment on report; call with H. McDiarmid	2.80	KE
Oct 28, 2022	Various review and correspondence re finalization of evidence; submit evidence	0.80	KE
Nov 2, 2022	Review Enbridge correspondence; draft response re proper reply and request for underlying spreadsheets	0.40	KE
Nov 3, 2022	Various correspondence	0.30	KE
Nov 14, 2022	Various correspondence; review procedural order and diarize dates	0.40	KE
Nov 15, 2022	Various correspondence	0.40	KE
Nov 18, 2022	Prepare IRs on Enbridge's evidence	2.30	KE

Nov 21, 2022	Review IRs; format responses; prepare expert acknowledgement	0.80	KE
Nov 24, 2022	Various correspondence; review and comment on IRRs	3.00	KE
Nov 25, 2022	Review and comment on IRRs; various correspondence	1.30	KE
Nov 28, 2022	Review EG interrogatory responses; draft follow-up correspondence asking for an answer to an outstanding IR	0.70	KE
Dec 4, 2022	Prepare submissions; various correspondence re intervenor coordination	2.80	KE
Dec 5, 2022	Prepare submissions; various correspondence re intervenor coordination	4.50	KE
Dec 6, 2022	Intervenor meeting	1.20	KE
Dec 8, 2022	Review correspondence from IGUA: draft follow-up correspondence	1.60	KE
	Total Hours and Fees	54.30	\$15,711.00
	Total HST on Fees		\$2,042.43
TOTALS			
	Total Fees & Disbursements		\$15,711.00
	Total HST		\$2,042.43
	Total Fees, Disbursements, & HST		\$17,753.43
Amount Now Due			\$17,753.43

HST #	75532 3078 RT0001
Total HST	\$2,042.43

Kent Elson**CASE**

EB-2022-0157: Facilities: Leave
to Construct (New): Enbridge Gas
Inc.

COST CLAIM

EB-2022-0157 : 1 : Kent
Elson

INTERVENOR NAME

Elson, Kent; +1 (416)
906-7305
kent@elsonadvocacy.ca

**PARTICIPANT
CLAIM STATUS**

Submitted

FILING PARTICIPANT

Elson, Kent; +1 (416) 906-7305
kent@elsonadvocacy.ca

**NEW
PARTICIPANT**

No

**NON-FILING
PARTICIPANT F. NAME****NON-FILING
PARTICIPANT L. NAME****SERVICE PROVIDER TYPE***

Legal Counsel

YEAR CALLED TO BAR

2009

**COMPLETED YEARS
PRACTICING/YEARS OF
RELEVANT EXPERIENCE***

14

HOURLY RATE

290

HST RATE CHARGED*

13.00

**CV STATUS (FOR
CONSULTANT/ANALYST)**

CV Required

LAST CV DATE**OVERRIDE
HOURLY RATE**

False

HST NUMBER

872151923RT0001

HEARINGS

Yes

CONSULTATIONS

No

DISBURSEMENTS

No

HEARINGS

Hearings Hours	Hearings Subtotal (\$)	Hearings Total Tax (\$)		Hearings Total (\$)		
54.00	15,660.00	2,035.80		17,695.80		
<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
Review Application and Evidence						
Review Application and Evidence	0.30	290	87.00	13.00	11.31	98.31
Discovery						
Preparation of Interrogatories	10.50	290	3,045.00	13.00	395.85	3,440.85
Review Interrogatory Responses	6.40	290	1,856.00	13.00	241.28	2,097.28
Technical Conference Preparation	3.80	290	1,102.00	13.00	143.26	1,245.26
Technical Conference Attendance	7.50	290	2,175.00	13.00	282.75	2,457.75
Technical Conference Follow Up	2.20	290	638.00	13.00	82.94	720.94
Issues List						
Preparation		290		13.00		
Attendance at Issues Conference		290		13.00		
Intervenor Evidence						
Preparation	5.60	290	1,624.00	13.00	211.12	1,835.12
Interrogatory Responses	4.30	290	1,247.00	13.00	162.11	1,409.11
Preparation of Witness(es) for Attendance at Hearing		290		13.00		
Settlement Conference / ADR						
Preparation		290		13.00		
Attendance		290		13.00		
Preparation of Settlement Proposal		290		13.00		
Attendance at Presentation to Panel		290		13.00		
Oral Hearing						
Preparation		290		13.00		
Attendance at Oral Hearing		290		13.00		
Submissions						
Written Submissions	7.30	290	2,117.00	13.00	275.21	2,392.21
Oral Submissions		290		13.00		
Attendance at Oral Submissions		290		13.00		
Other Attendance						
Other Attendance		290		13.00		
Communication						
With Client		290		13.00		
With Other Parties	6.10	290	1,769.00	13.00	229.97	1,998.97
Motions						
Preparation of Motion(s) Materials		290		13.00		
Prepare Submissions on the Motion(s)		290		13.00		
Attendance at Hearing on Motion(s)		290		13.00		
Confidentiality						
Preparation of Application for Confidentiality		290		13.00		
Prepare Submissions on Confidentiality		290		13.00		
Attendance at Hearing on Confidentiality		290		13.00		
Decision						
Review		290		13.00		
Rate Order						
Review		290		13.00		
Prepare Submission on Rate Order		290		13.00		
Total Service Provider Fees						
Total Service Provider Fees:	54.00		15,660.00		2,035.80	17,695.80

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
ElsonAdvocacy_InvoiceAndDockets.pdf	Time Docket	

Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document</u>	<u>Claim Type</u>	<u>Import Message</u>
ElsonAdvocacy_InvoiceAndDockets.pdf		Time Docket	Hearings	

Elson Advocacy

Invoice

Environmental Defence
33 Cecil Street
Toronto, ON
M5T 1N1

February 15, 2023

File #: 0149
Inv #: 1227

RE: Enbridge Panhandle Pipeline Leave to Construct Application

DATE	DESCRIPTION	HOURS	LAWYER
Jul 6, 2022	Review Enbridge panhandle application; various correspondence	0.30	KE
Jul 12, 2022	Draft correspondence to A. Montgomery	0.20	KE
	EGI - Panhandle Project - Draft and submit intervention request letter	0.30	AM
Aug 30, 2022	Review PO and diarize deadlines	0.10	KE
Sep 1, 2022	Review application; draft interrogatories	4.20	KE
Sep 14, 2022	Various correspondence	0.10	KE
Sep 23, 2022	Draft correspondence to EGI re access to IRs; draft correspondence to potential expert; various correspondence re intervenor coordination	1.40	KE
Sep 26, 2022	Review IRs; various correspondence	1.70	KE
Sep 27, 2022	Review interrogatories; call with potential expert re geothermal greenhouses; review materials re use of geothermal in greenhouses; various correspondence re intervenor coordination; prepare letter seeking approval of proposed evidence of Dr. McDiarmid	4.00	KE
Oct 3, 2022	Review correspondence from the OEB	2.50	KE

requesting detail re evidence proposal; draft response

Oct 4, 2022	Call with Board Staff re OEB questions; review and finalize letter to the OEB; various correspondence	0.70	KE
Oct 5, 2022	Prepare for technical conference; prepare correspondence responding to EG's objection to Dr. McDiarmid's evidence	3.80	KE
Oct 6, 2022	Attend technical conference	5.30	KE
Oct 7, 2022	Prepare for and attend technical conference	2.20	KE
Oct 14, 2022	Review procedural order and diarize deadlines; various correspondence; call with Dr. McDiarmid (.7)	1.00	KE
Oct 17, 2022	Various correspondence	0.20	KE
Oct 19, 2022	Review undertaking responses; draft correspondence to H. McDiarmid (.1)	0.60	KE
Oct 20, 2022	Review EBO 134; review draft materials from H. McDiarmid (.5)	0.90	KE
Oct 21, 2022	Call with H. McDiarmid	1.00	KE
Oct 25, 2022	Review and comment on Dr. McDiarmid report; correspondence with Dr. McDiarmid	0.50	KE
Oct 26, 2022	Review and comment on report; call with H. McDiarmid	2.80	KE
Oct 28, 2022	Various review and correspondence re finalization of evidence; submit evidence	0.80	KE
Nov 2, 2022	Review Enbridge correspondence; draft response re proper reply and request for underlying spreadsheets	0.40	KE
Nov 3, 2022	Various correspondence	0.30	KE
Nov 14, 2022	Various correspondence; review procedural order and diarize dates	0.40	KE
Nov 15, 2022	Various correspondence	0.40	KE
Nov 18, 2022	Prepare IRs on Enbridge's evidence	2.30	KE

Nov 21, 2022	Review IRs; format responses; prepare expert acknowledgement	0.80	KE
Nov 24, 2022	Various correspondence; review and comment on IRRs	3.00	KE
Nov 25, 2022	Review and comment on IRRs; various correspondence	1.30	KE
Nov 28, 2022	Review EG interrogatory responses; draft follow-up correspondence asking for an answer to an outstanding IR	0.70	KE
Dec 4, 2022	Prepare submissions; various correspondence re intervenor coordination	2.80	KE
Dec 5, 2022	Prepare submissions; various correspondence re intervenor coordination	4.50	KE
Dec 6, 2022	Intervenor meeting	1.20	KE
Dec 8, 2022	Review correspondence from IGUA: draft follow-up correspondence	1.60	KE
	Total Hours and Fees	54.30	\$15,711.00
	Total HST on Fees		\$2,042.43
TOTALS			
	Total Fees & Disbursements		\$15,711.00
	Total HST		\$2,042.43
	Total Fees, Disbursements, & HST		\$17,753.43
Amount Now Due			\$17,753.43

HST #	75532 3078 RT0001
Total HST	\$2,042.43

CASE EB-2022-0157: Facilities: Leave to Construct (New): Enbridge Gas Inc.	COST CLAIM EB-2022-0157 : 1 : Kent Elson	INTERVENOR NAME Elson, Kent; +1 (416) 906-7305 kent@elsonadvocacy.ca	PARTICIPANT CLAIM STATUS Submitted
FILING PARTICIPANT	NEW PARTICIPANT Yes	NON-FILING PARTICIPANT F. NAME Dr. Heather	NON-FILING PARTICIPANT L. NAME McDiarmid
SERVICE PROVIDER TYPE* Consultant	YEAR CALLED TO BAR	COMPLETED YEARS PRACTICING/YEARS OF RELEVANT EXPERIENCE* 5	HOURLY RATE 170
HST RATE CHARGED* 13.00	CV STATUS (FOR CONSULTANT/ANALYST) CV Attached	LAST CV DATE February 21, 2023	OVERRIDE HOURLY RATE False
HST NUMBER 872151923RT0001	HEARINGS Yes	CONSULTATIONS No	DISBURSEMENTS No

HEARINGS

Hearings Hours	Hearings Subtotal (\$)	Hearings Total Tax (\$)	Hearings Total (\$)			
46.50	7,905.00	1,027.65	8,932.65			
<u>Name</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Sub Total</u>	<u>HST Rate</u>	<u>HST</u>	<u>Total</u>
Review Application and Evidence						
Review Application and Evidence		170		13.00		
Discovery						
Preparation of Interrogatories		170		13.00		
Review Interrogatory Responses		170		13.00		
Technical Conference Preparation		170		13.00		
Technical Conference Attendance		170		13.00		
Technical Conference Follow Up		170		13.00		
Issues List						
Preparation		170		13.00		
Attendance at Issues Conference		170		13.00		
Intervenor Evidence						
Preparation	38.50	170	6,545.00	13.00	850.85	7,395.85
Interrogatory Responses	8.00	170	1,360.00	13.00	176.80	1,536.80
Preparation of Witness(es) for Attendance at Hearing		170		13.00		
Settlement Conference / ADR						
Preparation		170		13.00		
Attendance		170		13.00		
Preparation of Settlement Proposal		170		13.00		
Attendance at Presentation to Panel		170		13.00		
Oral Hearing						
Preparation		170		13.00		
Attendance at Oral Hearing		170		13.00		
Submissions						
Written Submissions		170		13.00		
Oral Submissions		170		13.00		
Attendance at Oral Submissions		170		13.00		
Other Attendance						
Other Attendance		170		13.00		
Communication						
With Client		170		13.00		
With Other Parties		170		13.00		
Motions						
Preparation of Motion(s) Materials		170		13.00		
Prepare Submissions on the Motion(s)		170		13.00		
Attendance at Hearing on Motion(s)		170		13.00		
Confidentiality						
Preparation of Application for Confidentiality		170		13.00		
Prepare Submissions on Confidentiality		170		13.00		
Attendance at Hearing on Confidentiality		170		13.00		
Decision						
Review		170		13.00		
Rate Order						
Review		170		13.00		
Prepare Submission on Rate Order		170		13.00		
Total Service Provider Fees						
Total Service Provider Fees:	46.50		7,905.00		1,027.65	8,932.65

Attachments

<u>Attachment</u>	<u>Document Type</u>	<u>Import Message</u>
invoiceEDFeb7.2023.pdf	Invoice	
invoiceEDFeb7.2023.pdf	Time Docket	
McDiarmidCV.pdf	CV	

Hearings, Consultations, Disbursements Attachments

<u>Attachment</u>	<u>Related Disbursement Claim</u>	<u>Document</u> <u>Type</u>	<u>Claim Type</u>	<u>Import Message</u>
invoiceEDFeb7.2023.pdf		Invoice	Hearings	
invoiceEDFeb7.2023.pdf		Time Docket	Hearings	
McDiarmidCV.pdf		CV	Hearings	

Heather McDiarmid

INVOICE

INVOICE # 23
DATE: FEB 7, 2023

TO:
Environmental Defense
33 Cecil St
1st Floor
Toronto, ON
M5T 1N1

SHIP TO:
Heather McDiarmid

QUANTITY	DESCRIPTION	TOTAL
27.5	Intervener Evidence preparation – panhandle cost modeling	4,675
11.0	Intervener Evidence preparation – greenhouse research	1,870
8.0	Intervener Evidence interrogatory responses – panhandle cost modeling	1,360
SUBTOTAL		7,905
HST (13%)		1,028
TOTAL DUE		8,933

Make all checks payable to Heather McDiarmid
If you have any questions concerning this invoice, contact Heather at heatheratp2@gmail.com

THANK YOU FOR YOUR BUSINESS!

Heather McDiarmid

INVOICE

INVOICE # 23
DATE: FEB 7, 2023

TO:
Environmental Defense
33 Cecil St
1st Floor
Toronto, ON
M5T 1N1

SHIP TO:
Heather McDiarmid

QUANTITY	DESCRIPTION	TOTAL
27.5	Intervener Evidence preparation – panhandle cost modeling	4,675
11.0	Intervener Evidence preparation – greenhouse research	1,870
8.0	Intervener Evidence interrogatory responses – panhandle cost modeling	1,360
SUBTOTAL		7,905
HST (13%)		1,028
TOTAL DUE		8,933

Make all checks payable to Heather McDiarmid
If you have any questions concerning this invoice, contact Heather at heatheratp2@gmail.com

THANK YOU FOR YOUR BUSINESS!

Heather McDiarmid, MCC, PhD

heatheratp2@gmail.com

Experience

Independent Consultant, McDiarmid Climate Consulting

Sept 2018 to present

- Clients have included the Environmental Defense, Ontario Clean Air Alliance, ClimateActionWR, Reep Green Solutions, GreenUP Peterborough, Waterloo Region Community Energy, Conestoga College.
- Prepared evidence for Ontario Energy Board hearings as an expert in residential heating options modelling.
- Developed curriculum materials for an internationally-recognized climate literacy certification program.
- Analyzed the financial and climate mitigation impacts of electrifying Ontario homes using heat pumps for space and water heating.
- Explored a housing archetype-based approach to decarbonizing residential homes in Waterloo Region.
- Conducted a residential retrofit financing program feasibility study to meet FCM requirements.
- Prepared a research-based study of the potential for active transportation hubs and programs to encourage transportation mode shifts in the tri-cities.
- Unearthed and detailed residential carbon mitigation programs and strategies from across North America to inform Toronto's climate action plan.
- Prepared a climate impact analysis and developed an evaluation framework for a non-profit.
- Performed primary and secondary market research on the feasibility of retrofit management.

Sustainability Living Lab Coordinator, University of Waterloo

Oct 2021 to July 2022

- Facilitated opportunities for students to apply their skills and knowledge to campus sustainability challenges
- Documented campus work related to the UN Sustainable Development Goals
- Developed resources to support integration of sustainability content in courses and programs

Research Associate and Lecturer, University of Waterloo

Jun 2020 to present

- Taught a blended (in person and online) graduate course in Climate Change Mitigation in Fall 2021.
- Worked with local non-profit organizations to provide experiential learning opportunities.
- Invited as a guest lecturer on Climate Change Communications and on Climate Change and Housing.
- Analyzed a database of over 44,000 home energy audit results to explore the emissions impacts of different retrofit and electrification approaches for the residential sector.
- Presented research findings at the International Green Energy Conference, Jul 15-18, 2021.

Heather McDiarmid, MCC, PhD

heatheratp2@gmail.com

Research Assistant and Writer, University of Waterloo and David Miller

Mar 2019 to Apr 2020

- Investigated municipal programs from around the world that have been successful in cutting carbon emissions, highlighting the most relevant and universally applicable details for a book.
- Advised on structuring the book and collaborated in choosing programs to profile.
- Wrote early drafts of many chapters.
- David Miller, Director of International Diplomacy at C40 Cities, is the author of the book titled Solved: how the world's great cities are fixing the climate crisis.

Researcher, Clean Air Partnership

Apr to Aug 2019

- Prepared a [toolkit](#) on municipal financing options for residential retrofit programs.
- Completed a 16-week research project in 10 weeks.
- Prepared and presented webinars to municipal representatives.

Academic Instructor, Wilfrid Laurier University and University of Guelph

2002 to 2011

- Shared a passion for biochemistry with 6-200 students at the 2nd, 3rd and 4th year levels.
- Researched and developed new course content.
- Explored innovative ways of engaging students.

Education

- Master of Climate Change, University of Waterloo
- PhD in Biochemistry, University of Guelph

Leadership in Sustainability

- **Project Lead**, Homeowner's guide to heat pumps for WR
- **Committee Member and Co-Chair**, ClimateAction WR Residential Sector
- **Committee Member**, UW CAP Climate and Energy Working Group

Jan to Jun 2021

*Dec 2018 - present
2019*

Heather McDiarmid, MCC, PhD

heatheratp2@gmail.com

Writing and Publications

- An analysis of the financial and climate benefits of using ground-source heat pumps to electrify Ontario's gas-heated homes, prepared for Ontario Clean Air Alliance
- Carbon Literacy Training, an 8-hour micro-credential prepared for Conestoga College
- [An analysis of the financial and climate benefits of electrifying Ontario's gas-heated homes by installing air-source heat pumps](#), prepared for Ontario Clean Air Alliance
- [Accelerating the 1.5°C energy transition for Canadian residential buildings through selective direct electrification with heat pumps](#). Peer-reviewed article published in Canadian Geographer, July 4, 2022.
- [Analysis of Enbridge Gas' proposed low carbon transition program for cost-effectiveness and climate alignment](#), prepared for Environmental Defense for use in OEB hearings
- [An analysis of the potential for air source heat pumps to reduce energy costs and greenhouse gas pollution](#), prepared for Ontario Clean Air Alliance
- Deep energy efficiency retrofits vs direct electrification for urgent emissions reduction: a case study using 33,780 residential energy profiles in Waterloo, Canada. Presented to the 13th International Green Energy Conference Jul 2021.
- [Active Transportation Hubs in Waterloo Region: a research pilot project](#) prepared for ClimateActionWR
- [Aerial thermal imaging and building energy efficiency upgrades in WR: a sustainable buildings pilot, prepared for ClimateActionWR](#)
- [Analysis of the Residential Electrification Potential for the Waterloo Region](#)
- [Residential heat pump water heaters as a climate action for the Waterloo Region](#)
- Deep Energy Residential Retrofit: financing feasibility study for Waterloo Region, prepared for WR Community Energy
- [Accelerating Home Energy Efficiency Retrofits through LIC Programs: a toolkit for municipalities](#), prepared for Clean Air Partnership
- [Climate Change and the Tree Canopy of Waterloo Region](#)
- [Climate Change and Housing Affordability in Canada](#)