From: Barry Turcotte

Sent: Thursday, June 14, 2018 3:41 PM

To: Brian Koski; Lorie Hunter; Roxanne St. Germain

Cc: Casandra DeForge; Deb Larochelle

Subject: FW: 2018 Landfill Monitoring and Report Proposal

Attachments: 048-2018_Proposal_16Mar18.pdf; 048-17-03-2018_Contract_16Mar18.pdf; 048-17-02-2018

_Contract_16Mar18.pdf; 048-17-01-2018_Contract_16Mar18.pdf

Hi Brian/Lorie

I'm sending this email to both of you to let you know that I believe that the last memo was misplaced in the office and never made it to Council back in early April for some reason. I had asked Brian if he had seen this and he said he had not, so after talking with Cassandra from Story's I thought I would resend it. Water sampling monitoring for our landfills is mandatory for us to complete and Story have been doing this for a while now. I believe they just need the go ahead to complete. Can this be talked about at this Council meeting on Tuesday, and let Public Works know what way to proceed.

Barry Turcotte
Public Works Superintendent

From: Casandra DeForge [mailto:casandra.deforge@storyenvironmental.com]

Sent: Thursday, June 14, 2018 11:11 AM

To: Elaine Gunnell <clerk@temagami.ca>; Barry Turcotte <pwsuper@temagami.ca>

Cc: Deb Larochelle <publicworks@temagami.ca>; Candice Bedard <Candice.Bedard@storyenvironmental.com>

Subject: RE: 2018 Landfill Monitoring and Report Proposal

Hi Barry and Elaine,

Attached is the 2018 landfill monitoring proposal for Sisk, Briggs, and Strathy landfills, originally sent on 16 March 2018. Please find the original emails below.

The proposal is for 2018 only. We can provide a 3-5 year proposal for your review next year. Please review the attached proposal and if you wish to proceed with the monitoring programs the contracts are attached and must be signed before the monitoring programs can begin.

Barry and I have tentatively scheduled the spring monitoring for Briggs, Sisk and Strathy landfills for the 27th of June. Please provide us with the approved signed contracts by Friday 22 June.

We currently have Patrick Cormier as the signing authority, Barry/Elaine, could either of you direct me on who the authorized signatory will be for these contracts?

Thank you, Casandra

Casandra DeForge, B.Sc.
Junior Environmental Scientist



Office: 705-672-3324 Ext. 212 / Fax: 705-672-3325 332 Main Street (P.O. Box 716), Haileybury, ON P0J 1K0

http://storyenvironmental.com

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From: Candice Bedard Sent: April-11-18 10:56 AM

To: 'pwsuper@temagami.ca' < pwsuper@temagami.ca>
Cc: Jessica Labelle < jessica.labelle@storyenvironmental.com>
Subject: FW: 2018 Landfill Monitoring and Report Proposal

Hi Barry,

As per our discussion, please find the original email below. Also, please don't hesitate to give us a call upon your review of the proposal.

All the best!

Candice Bedard Business Manager



Office: 705-672-3324/ Fax: 705-672-3325 332 Main Street (P.O. Box 716), Haileybury, ON P0J 1K0

http://storyenvironmental.com

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From: Candice Bedard Sent: March-16-18 2:53 PM

To: 'clerk@temagami.ca' <clerk@temagami.ca>; 'pwsuper@temagami.ca' <pwsuper@temagami.ca>

Cc: 'publicworks@temagami.ca' <publicworks@temagami.ca>

Subject: 2018 Landfill Monitoring and Report Proposal

Good afternoon Elaine and Barry,

Pursuant to our communications with Barry, and as per his request, please find attached the proposal for the 2018 Landfill Monitoring and Reporting for Briggs, Sisk and Strathy.

This year, in an effort to make things a little easier, we have also included the proposed draft contracts for each landfill, should you wish to proceed.

We look forward to any comments or questions that you may have.

Sincerely,

Candice Bedard Business Manager



Office: 705-672-3324/ Fax: 705-672-3325 332 Main Street (P.O. Box 716), Haileybury, ON P0J 1K0 http://storyenvironmental.com

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14 March 2018

Mr. Barry Turcotte
Public Works Superintendent
The Corporation of the Municipality of Temagami
46 Lakeshore Drive
P.O. Box 220
Temagami, Ontario
P0H 2H0

Dear Mr. Turcotte,

Re: Proposal for 2018 Sisk, Briggs, and Strathy Landfill Monitoring and Reports

1 Introduction

Story Environmental Inc. ("SEI") is pleased to provide the Corporation of the Municipality of Temagami with a cost estimate for the 2018 monitoring and reporting at the Briggs and Sisk Landfills, in accordance with the Certificate of Approval for the landfill sites and surface water monitoring at Strathy Landfill.

2 Relevant Experience

SEI is a dynamic and multi-faceted environmental consulting firm based in Temiskaming Shores (Haileybury), Ontario and since January 2015 in North Bay, Ontario. We have been providing environmental consulting services to clients since 1996, with a focus on Northeastern Ontario since 2000. Our office locations allow us to deliver excellent, cost-effective services to our region.

SEI has an excellent reputation amongst its clients, regulators, and subcontractors. This reputation is based on the fact that we communicate with all stakeholders involved in our projects and provide innovative solutions to difficult problems in a timely and cost-effective manner. All sampling and assessment activities follow a set of Standard Operating Procedures ("SOPs") for quality assurance and quality control purposes and to ensure compliance with relevant legislation and regulations.

SEI is familiar with the Sisk and Briggs Landfill sites. Monitoring and reporting services were carried out by SEI at these landfills from 2008 to 2011 and again in 2016 and 2017. SEI also completed monitoring for Strathy Landfill in 2017. We have provided monitoring and reporting services for several landfills in northeastern Ontario.



3 Project Team

The SEI team of professionals has a diverse range of relevant experience and qualifications. The core team members for this project and their responsibilities are:

Maria Story, P.Eng (President). Maria has a background in Chemical Engineering and has over 25 years of environmental consulting experience, focussing on water chemistry and treatment. Maria has extensive experience with environmental permitting, compliance reporting and the development of environmental management plans, Environmental Compliance Approval applications, and environmental assessments. Maria will review reports and approve all deliverables.

Ken Korman, P.Eng. (Senior Environmental Engineer). Ken has over 20 years of consulting experience in geotechnical and environmental engineering. He has extensive experience relating to soil, groundwater, and surface water investigations, remediation, and management, as well as operation and management of landfills. Ken will review monitoring plans, analytical data, and provide technical support when necessary.

Andrew Rees, Ph.D., EP (Senior Environmental Scientist). Andrew has a background in hydrology and water management and has over 10 years of experience in planning and implementing environmental projects, including baseline studies, feasibility studies, environmental assessments, and scientific research programs. He has considerable experience in planning and implementing groundwater and surface water monitoring programs and in the analysis and reporting of data.

Support Staff. The core project team will be supported by technical and administrative staff as required, including field technicians and mapping specialists. SEI has several field technicians with extensive experience collecting surface and groundwater samples for similar projects. All of our technicians are trained to conduct sampling according to our SOPs to ensure the integrity of our sampling programs.

4 Scope of Work

The Briggs, Sisk, and Strathy Landfills are scheduled to be monitored on a biannual basis in 2018. Monitoring reports are to be provided annually. The scope of work is outlined below:

- Sisk Landfill groundwater monitoring will take place at all four (4) existing groundwater monitoring wells (i.e. MW1, MW2, MW3, and MW4), which includes the collection of groundwater samples and measurement of groundwater levels. The static water level in each well will be recorded, along with field parameters, including: temperature, pH, conductivity, oxidation reduction potential, and dissolved oxygen. The groundwater samples will be analyzed at an accredited laboratory for general chemistry, dissolved metals, nutrients, and leachate indicator parameters.
- Surface water monitoring will take place at the Sisk Landfill, at one offsite location, located at
 the unnamed lake to the north of the landfill site (i.e. SW-1). At the surface water sampling
 location field parameters will be measured, including: temperature, pH, conductivity, and
 dissolved oxygen, and a surface water sample will be collected. The surface water sample will



be analyzed at an accredited laboratory for general chemistry, total metals, nutrients, and leachate indicator parameters.

- Briggs Landfill groundwater monitoring will take place at all four (4) existing groundwater monitoring wells (i.e. MW1, MW2, MW3, and MW4), which includes the collection of groundwater samples and measurement of groundwater levels. MW5 well was decommissioned in 2016 and is therefore no longer monitored. The static water level in each well will be recorded, along with field parameters, including: temperature, pH, conductivity, oxidation reduction potential, and dissolved oxygen. The groundwater samples will be analyzed at an accredited laboratory for general chemistry, dissolved metals, nutrients, and leachate indicator parameters.
- Landfill Gas Monitoring will include field measurements of combustible vapour levels at each monitoring well, at both the Sisk and Briggs Landfills.
- A survey of the top of water elevation for the un-named lake at the Sisk Landfill;
- Topographic surveys of both the Sisk and Briggs Landfills to determine the estimated volume
 of waste using the unmanned aerial vehicle ("UAV"), calculation of the remaining capacity of
 the landfills, and estimate the remaining site life.
- Strathy Landfill surface water monitoring will take place at two locations (SW1 and SW2). At
 these sampling locations field parameters will be measured, including temperature, pH,
 conductivity, and dissolved oxygen. The surface water samples will be analyzed at an
 accredited laboratory for general chemistry, total metals, nutrients, and leachate indicator
 parameters.
- Quality Assurance/Quality Control ("QA/QC") samples for the groundwater program will be collected. The samples will combine to be at least 10% of the total samples collected for the program.
- Annual site monitoring reports will be prepared for Sisk and Briggs landfills, to summarize the analytical results of the current year. The reports will also include an interpretation of the results and recommendations for future work.
- A memo of results will be prepared for Strathy Landfill to summarize the analytical results of the current year.

The accredited laboratory for this project would be Maxxam Analytics ("Maxxam"). SEI has a long working relationship with Maxxam and we have developed an approach for consolidating analytical data into a database to ensure time efficient and accurate reporting. This is one of the factors that allows for long-term efficiencies in SEI's monitoring programs.

Monitoring the potential environmental impacts of a landfill is a long-term endeavor for municipalities. As such, SEI has been working towards improving the efficiency and reducing the cost of these monitoring programs. This includes streamlined methods of data management and report preparation that have evolved through the years.

14 March 2018 3 of 5



5 Schedule

The monitoring program will consist of samples being collected on an biannual basis. The sampling would be conducted in June/July and October of 2018. The surveying event will take place on the same day as the October sampling event to reduce travel costs. The actual date of sampling will be determined closer to the sampling time to avoid adverse weather, which can cause delays. The annual reports will be completed in draft by 16 April 2019, and will be finalized and issued to the Corporation of the Municipality of Temagami by 28 May 2019.

6 Cost Estimate

The cost estimate for the monitoring programs and reporting on an annual basis is summarized in Table 6.1. The cost estimate provided includes all labour, reporting, and overhead fees.

Table 6.1 Proposed Budget

Description	Cost Estimate
Briggs Monitoring, Reporting, and Survey	\$8 500
Sisk Monitoring, Reporting, and Survey	\$8 700
Strathy Monitoring and Reporting	\$2 800
TOTAL COST	\$20 000

NOTES:

2. Expenses for travel to and from the project site are included.

3. Applicable taxes (HST) are not included.

The total estimated cost to complete the proposed scope of work is approximately \$19 500 (not including taxes). The actual time spent and disbursement expenses will be invoiced on a monthly basis. A detailed cost estimate is attached and is valid for 90 days from the proposal submission date.

7 Key Assumptions

The following assumptions were used in the development of the cost estimate:

- the budget allows for the replacement of all waterra sample tubing, however the tubing is only replaced when necessary;
- all wells can be easily located and are accessible (keys for locks, etc.);
- a second field staff member will be provided by Temagami;
- monitoring events will be conducted in one day;
- At Briggs Landfill MW1 and MW3 are possible leachate wells;
- At Sisk Landfill MW1, MW2, and MW4 are possible leachate wells;
- electronic drawings are available and will be provided; and
- electronic files, for any of the historical analytical data which SEI does not have, will be provided.

Disbursements include laboratory analysis, equipment required for sampling: water level probe, combustible gas monitor, pH meter, dissolved oxygen meter, conductivity meter, 0.45µm groundwater filters, and courier shipments for sampling.



Please let us know if you have any questions or require any additional information and we look forward to working with you and the Municipality of Temagami.

Yours truly,

STORY ENVIRONMENTAL INC.

Maria Story, P.Eng

President

Attachments:

- 1. Project References
- 2. Detailed cost estimates for Briggs and Sisk Landfill Monitoring and Reporting, and Strathy Landfill Surface Water Monitoring.

R:\SER998 Business Developement\998-231 Temagami Landfill Monitoring\998-231 Temagami Landfill Proposal - Final Docx



ATTACHMENTS



Project References:

City of Temiskaming Shores

Mr. Dave Treen
Municipal Clerk
City of Temiskaming Shores
P.O. Box 2050
Haileybury, Ontario
P0J 1K0
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Agnico Eagle Mines Limited

Josée Noël, M.Sc.
Project Leader – Mining Reclamation
Agnico Eagle Mines Limited
93, Rue Arseneault bureau 202
Val-d'Or, Québec, Canada
J9P 0E9
T: 819-759-3700 x 5821

Township of Black River-Matheson

Ms. Cassandra Child Clerk/Treasurer 429 Park Lane P.O. Box 601 Matheson, Ontario POK 1N0 T: 705-273-2313

Uniboard Canada Inc.

Mr. Larry Fortier CGA, Director, Special Projects Uniboard Canada Inc 2540 Daniel-Johnson Blvd., Suite 500 Laval, QC H7T 2S3 T: 819-825-6550

AkzoNobel

Frank Lagrotta
Legacy Management Canada
Akzo Nobel Coatings Ltd.
1120 Finch Avenue West, Suite 200
North York, Ontario, Canada
M3J 3H7
T: 416-665-5084



Cost Estimate -Ternagami Landfill Monitoring 2018 (Briggs) Proposal Number: 998-300 Project Location: Temsgami, Ontario

ofe asional	Item	Personnel	Hours	Pale	Budget	Comments
mual Landfill	Groundwater Monitoring	1 010011101	110013	1400	oduget	Collinetts
	Office - Preparation for Field	CAD	2	\$85	\$170	1 hour per event * two sampling events
				-	477.0	The partition two sampling trains
	Field Work - Sampling (GW)	CAD	7	\$85	\$595	0.75 hours per well, including gas monitoring, purging and sampling, 4 wells in total "two sampling events + 1 extra hour for ground supervision during the October UAV Sight."
	Travel	CAD	2	\$85	\$170	1 fv Irip * Iwo trips to sile per year
	Administration	BEB	1	\$58	\$56	
	Project Management	MES	1	\$165	\$165	
	1.0				Subtotal: \$1,156	
nual Monitori	ng Report					
	Project Management	MES	2	\$165	\$330	
	Data Compliation and Analysis	CAD	12	\$85	\$1,020	1.5 days to do volume calcs and spreadsheets
	Report Writing	CAD	15	\$85	\$1,275	2 days
	GIS Mapping	NAM	2	\$85	\$170	updated maps of site and MW locations
	Initial Review	ACS	3	\$120	\$360	4
	Report Preparation	BEB	1	\$56	\$56	printing and binding
	Review	MES	3	\$165	\$495	partitioning canadicating
		mac		9.00	Subtotal: \$3,706	
					200001. 33,700	
nual Surveyt	na Frant					
	Preparing SFOC for LIAV Survey	NRM	4	\$80	\$320	
	Field Work - UAV Flight	NRM		\$85	\$320	obtaining legal permission to by in the area Set-Up GCP's and Flying UAV
	Irave	NEW	1	\$85	\$85	I fir top " one trip
						i in tub, out tub
	Processing Imagery and Survey	NPM	5	\$80	\$200	
	GIS Mapping	NRM	4	\$80	\$360	
					Subtotal: \$1,305	
72.						
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	item ment Waterra Tubing Waterra Foot Valve		150	Rate \$0.5	867.5 \$32	If required
	item ment Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters		150 4 8	Rate \$0.5 \$8 \$25	\$67.5 \$32 \$200	If required 4 wells * 2 events
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umpling Equip	Item wrient Waterra Tubing Waterra Foot Valve Waterra O.5 micron filters Water Level Meter (per day) VSI Mulli-meter (per day) Combustible Gas Monitor (per day) effec UAV Percise GPS Mileage Briggs (km) (travel to alte 2 days per year)		150 4 8 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	Section Sect	If required 4 wells * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 wells + duplicate (Maxxam quote 880616) 1 cooler per sampling event * 2 events
umpling Equip	Item wrient Waterra Tubing Waterra Foot Valve Waterra O.5 micron filters Water Level Meter (per day) VSI Mulli-meter (per day) Combustible Gas Monitor (per day) effec UAV Percise GPS Mileage Briggs (km) (travel to alte 2 days per year)		150 4 8 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	Section Sect	If required 4 wells * 2 events 0.5 day * 1 event 0.5 day * 1 event 145 km round trip. (Travel from Halleybury to site in one d * twice a year) 4 wells + duplicate (Maxxam quote 880616) 1 cooler per sampling event * 2 events
umpling Equip	Item wrient Waterra Tubing Waterra Foot Valve Waterra O.5 micron filters Water Level Meter (per day) VSI Mulli-meter (per day) Combustible Gas Monitor (per day) effec UAV Percise GPS Mileage Briggs (km) (travel to alte 2 days per year)		150 4 8 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	Section Sect	If required 4 wells * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 wells + duplicate (Maxxam quote 880616) 1 cooler per sampling event * 2 events
umpling Equip	Item wrient Waterra Tubing Waterra Foot Valve Waterra O.5 micron filters Water Level Meter (per day) VSI Mulli-meter (per day) Combustible Gas Monitor (per day) effec UAV Percise GPS Mileage Briggs (km) (travel to alte 2 days per year)		150 4 8 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$95 \$85 \$25 \$95 \$85 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$2	Subtotal: \$1,223	If required 4 wells * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 wells + duplicate (Maxxam quote 880616) 1 cooler per sampling event * 2 events
umpling Equip	Item wrient Waterra Tubing Waterra Foot Valve Waterra O.5 micron filters Water Level Meter (per day) VSI Mulli-meter (per day) Combustible Gas Monitor (per day) effec UAV Percise GPS Mileage Briggs (km) (travel to alte 2 days per year)		150 4 8 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$95 \$85 \$25 \$95 \$85 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$2	Budget	If required 4 wells * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 wells + duplicate (Maxxam quote 880616) 1 cooler per sampling event * 2 events
umpling Equip	Item wrient Waterra Tubing Waterra Foot Valve Waterra O.5 micron filters Water Level Meter (per day) VSI Mulli-meter (per day) Combustible Gas Monitor (per day) effec UAV Percise GPS Mileage Briggs (km) (travel to alte 2 days per year)		150 4 8 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$95 \$85 \$25 \$95 \$85 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$2	Subtotal: \$1,223	If required 4 wells * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 wells + duplicate (Maxxam quote 880616) 1 cooler per sampling event * 2 events

TOTAL BUDGET: \$8,505



	998-300	Į.				
roject Location:	Temagami, Ontario					
rofessional F	tem Item	Personnel	Hours	Rate	Budget	Comments
nnual Landfill Gi	roundwater Monitoring		170018	reno	Dodget	Comments
	Office - Preparation for Field	CAD	2	\$85	\$170	:1 hour per event * two sampling events
	Field Work - Sampling (GW)	CAD	7	\$85	\$595	O.75 hours per well, including gas monitoring, purging and sampling, 4 wells in total * two sampling events + 1 extra hour tor ground supportion during the October LIAV flight.
	I was a second of the second o					aupervision during the October UAV flight 0.5 hours per SW sample, 1 sampling location
	Field Work - Sampling (SW)	CAD	1	\$85	\$85	two sampling events
	Travel Administration	CAD BEB	2	\$85 \$56	\$170 \$56	1 hr trip * two trips
	Project Management	MES	-i	\$165	\$165	
	122				Subtotal: \$1,241	
	Jakan and a same and a same and a same a	1 1			(A-100) - 1/10 -	
nnual Monitoring	Project Management	MES	2	\$165	\$330	
	Data Compilation and Analysis	CAD	12	\$85	\$1,020	1.5 days to do volume calcs and spreadsheets
	Report Writing	CAD	15	\$85	\$1,275	2 days to do would calca and spreadsheets
	Drafting	NRM	2	\$85	\$170	updaled maps of site
	Initial Review	ACS	3	\$120	\$360	
	Report Preparation	888	1	\$56	\$56	priniting and binding
	Review	MES	3	\$165	\$495	
					Subtotal: \$3,706	
	1					
Annual Surveying	Event					
	Preparing SFOC for UAV Suney Field Work - UAV flight	NAM	4	580	\$320	obtaining legal permission to fly in the area
	Field Work - UAV flight	NAM	4	\$85	\$340	obtaining legal permission to fly In the area. Set-Up GCP's and Flying UAV
	Travel	NAM	1	\$85	\$85	1 hr trip " one trip
	Processing Imagery and Survey	NRM	2	\$80	\$160	
	Draking	NRM	4	\$80	\$320	
		1			Subtotal: \$1,225	
	fr	1				
	ķ			Su	btotal Fees: \$5,172	
	Ì					
Disbursement	8					
	s Item		Quantity	Rate	Budget	
A						4-
Sampling Equipm	Waterra Tubing	1	150	\$0.5	\$68	If required
	Waterra Foot Valve		4	\$8	\$32	if required
				\$25		
10 00 00 00 00			8		\$200	4 wells * 2 events
	Waterra 0.45 micron filters		8	\$25	\$200 \$25	4 wells * 2 events 0.5 day * 2 events
		1 =				4 wells * 2 events 0.5 day * 2 events 0.5 day * 2 events
	Watera 0.45 micron filters Water Level Meter (per day)		1	\$25	\$25	0.5 day * 2 events
	Watera 0.45 micron filters Water Level Meter (per day)		1	\$25	\$25	0.5 day * 2 events
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Muti-meter (per day) Combustible Gas Monitor (per day)		1	\$25 \$95 \$85	\$25 \$95 \$85	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV		1 1 0.5	\$25 \$95 \$85 \$500	\$25 \$95 \$85 \$85	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Muti-meter (per day) Combustible Gas Monitor (per day)		1	\$25 \$95 \$85	\$25 \$95 \$85 \$85 \$250 \$100	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV		1 1 0.5	\$25 \$95 \$85 \$500	\$25 \$95 \$85 \$85	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event
fravel to Site	Watera 0.45 micron filters Water Level Meter (per day) YSI Mutil-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS		1 1 0.5	\$25 \$95 \$85 \$500	\$25 \$95 \$85 \$85 \$250 \$100	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event
Travel to Site	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Mileage Sisk (km) (travel to site 2		1 1 0.5	\$25 \$95 \$85 \$500	\$25 \$95 \$85 \$85 \$250 \$100	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event
Travel to Site	Watera 0.45 micron filters Water Level Meter (per day) YSI Mutil-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS		1 1 0.5	\$25 \$95 \$85 \$500	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event
fravel to Site	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Mileage Sisk (km) (travel to site 2		1 1 0.5 0.5	\$25 \$95 \$85 \$600 \$200	\$25 \$95 \$85 \$85 \$250 \$100 Subtotal: \$855	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event
8	Watera 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year)		1 1 0.5 0.5	\$25 \$95 \$85 \$600 \$200	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event
Travel to Site	Watera 0.45 micron filers Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year)		1 1 0.5 0.5	\$25 \$95 \$85 \$600 \$200	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event
8	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) (se Analysis Groundwater Sample Analysis Sisk		1 1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$60 \$200 \$0 55	\$25 \$95 \$85 \$250 \$100 Subtotal: \$855 \$70 Subtotal: \$70	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.6 day * 1 event 0.7 day * 1 event
8	Watera 0.45 micron filers Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year)		1 1 0.5 0.5	\$25 \$95 \$85 \$600 \$200	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.6 day * 1 event 0.7 day * 1 event
8	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxem) Surface Water Sample Analysis (Maxxem)		1 1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$500 \$200 \$0 65 \$555 \$132	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagam) access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) te Analysis Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis		1 1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$500 \$200 \$0 65	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 4 km round trip. (Travel from Temagam) acces road to site in one day * twice a year)
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$500 \$200 \$0 65 \$555 \$132	\$25 \$95 \$85 \$85 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150 \$ubtotal: \$1,323	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagam) acces road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061) 1 SW site 1 cooler per sampling event * 2 events
8 3 2 2 3	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$500 \$200 \$0 65 \$555 \$132	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagami access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061
8	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$500 \$200 \$0 65 \$555 \$132	\$25 \$95 \$85 \$85 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150 \$ubtotal: \$1,323	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagami access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061 1 SW site 1 cooler per sampling event * 2 events
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$500 \$200 \$0 65 \$555 \$132	\$25 \$95 \$85 \$85 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150 \$ubtotal: \$1,323	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagami access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061 1 SW site 1 cooler per sampling event * 2 events
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$500 \$200 \$0 65 \$555 \$132	\$25 \$95 \$85 \$85 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150 \$ubtotal: \$1,323	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagami access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061 1 SW site 1 cooler per sampling event * 2 events
8	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$600 \$200 \$0 65 \$132 \$75	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150 \$ubtotal: \$1,523 +5% ',\$ 1,599	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagami access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061 1 SW site 1 cooler per sampling event * 2 events
	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$600 \$200 \$0 65 \$132 \$75	\$25 \$95 \$85 \$85 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150 \$ubtotal: \$1,323	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagami access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061 1 SW site 1 cooler per sampling event * 2 events
8 1 2 2 3 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) e8ee UAV Percise GPS Mileage Sisk (km) (travel to site 2 days per year) Market Groundwater Sample Analysis Sisk (Maxxam) Surface Water Sample Analysis (Maxxam)		1 1 0.5 0.5 0.5	\$25 \$95 \$85 \$600 \$200 \$0 65 \$132 \$75	\$25 \$95 \$85 \$250 \$100 \$ubtotal: \$855 \$70 \$ubtotal: \$70 \$1,110 \$263 \$150 \$ubtotal: \$1,523 +5% ',\$ 1,599	0.5 day * 2 events 0.5 day * 2 events 0.5 day * 2 events 0.5 day * 1 event 0.5 day * 1 event 0.5 day * 1 event 4 km round trip. (Travel from Temagami access road to site in one day * twice a year) 4 GW wells + duplicate (Maxxam quote B8061 1 SW site 1 cooler per sampling event * 2 events



Cost Estimate -Temagami Landfill Monitoring 2018 (Strathy)

Proposal Number: 998-300

Project Location: Temagami, Ontario

Professional	Fees					The state of the s
	tem	Personnel	Hours	Rate	Budget	Comments
Annual Landfill	Surface Water Monitoring	1 1		1 1		
	ariana astron mentaning	1 1				1 hour per event * two sampling events + 2hours for office
	Field Preparation	CAD	4	\$85.00	£240.00	planning of sampling work
	Field Work	CAD	3		\$340.00	hanned of studying work
·	Travel	CAD	0.5	\$85,00	\$255 00	
	Administration	BEB	0.25	\$56.00	\$42.50	10 km round trip off highway (15 minute round-trip, time
					\$14,00	
	Project Management	MES	0.5	\$165,00	\$82.50	
	1	i. ì			Subtotal: \$734.00	
Innual Monitor	ng Report (memo)	1 1		1		
THE REAL PROPERTY.	Project Management	MES	0.5	\$165.00	600.50	
	Data Compliation and Analysis	CAD	4	\$85.00	\$82.50	
	Report Writing	CAD	6	\$85.00	\$340.00	
	Orating	NRM	1	\$85.00	\$510.00 \$85.00	
	Initial Review	ACS	1	\$120.00	\$120.00	updated maps of site and MW locations
	Report Preparation	BEB	0.5	\$56.00	\$28.00	
	Raview	MES	1	\$165.00	\$165.00	printing and binding
	T HOWEVE	MES	'	3103,00	Subtotal: \$1,330.50	
	1	1 - 1		1	30010081: \$1,330.90	
	l i	1 3		1		
		1 1		}		
		1 3		Sut	ototal Fees: \$2,064.50	
Disbursemen	Its.		deal of the land			
	Item	1 1	Quantity	Rate	Budget :	
ampling Equip				1	Congress	
	YSI Multi-meter (per day)		1.0	\$95.00	\$95.00	
	1	1 1			Subtotal: \$95.00	
		1				
ravel to Site	1	1 1		1	1 1	
	Mileage	-]	20.0	\$0.55	\$11.00	10 km round trip, 2 trips. Off highway only.
		1 1			Subtotal: \$11.00	
aboratory Sam	and Analysis			1 1		
and all y Seen	Surface Water Samples	1	2.0	\$263.00	\$526,00	2 samples (\$131.50 each for package), twice per year
	Courier		1.0	\$75	575.00	Estimate 1 extra cooler required for entire year
			1,0	1	Subtotal: \$601.0	(piggy back onto other sites)
		1 1			+5% \$831.1	Mark-up for Adminstrative Purposes
1	T	- 1		1	T370 3031.1	went-uh tot volunistigling turposes
				1		
	1 1	-}		{		
	1	1 - 1		\$ \$		
	1	1 1 1 1		1 1		
	1	1			1 1	
	1	1 1		1		
		1		1		
_		7 - 19803	Sub	total Disb	ursements: \$737.05	

TOTAL BUDGET: \$2,801.55



Project No. 048-17-03-2018

CONSULTING SERVICES CONTRACT

Story Environmental Inc. ("SEI"), the first party, and The Corporation of the Municipality of Temagami ("Temagami"), the second party, agree that the following terms and conditions apply to any services, including subsequent services and charges (collectively "Services"), to be provided by SEI relating to Project No. 048-17-03 Strathy Landfill Monitoring and Report (collectively the "Contract").

1. Scope of Work

The Strathy Landfill is scheduled to be monitored on a biannual basis for 2018. A monitoring report is to be prepared annually. The following scope of work will be completed, as outlined:

- Strathy Landfill surface water monitoring will take place at two locations (SW1 and SW2). At these sampling locations field
 parameters will be measured, including temperature, pH, conductivity, and dissolved oxygen.
- The surface water samples will be analyzed at an accredited laboratory for general chemistry, total metals, nutrients, and leachate indicator parameters.
- A memo will be prepared for Strathy Landfill to summarize the analytical results.

2. Schedule

The monitoring program will consist of samples being collected on a biannual basis. The sampling would be conducted in June/July and October of 2018. The date of sampling will be determined closer to the sampling time to avoid adverse weather, which can cause delays. The memo will be completed in draft by 16 April 2019, and will be finalized and issued to the Corporation of the Municipality of Temagami by 30 May 2019.

3. Budget

As per the cost estimate provided in Appendix A of this Contract, SEI has estimated that the total cost to complete this project to be \$2800 (excluding HST).

The following assumptions were used in the development of the cost estimate:

- One staff member from The Corporation of the Municipality of Temagami will be present on site during each monitoring event;
- · electronic drawings are available and will be provided; and
- electronic files, for any of the historical analytical data which SEI does not have, will be provided.

4. Terms, Termination, and Suspension

The Contract could be terminated upon any of the following:

a. Notification by one of the parties that they wish to terminate the Contract; or

STORY ENVIRONMENTAL INC.

b. The date a modified or new Contract commences.

This Contract may be terminated by either party upon thirty (30) days written notice to the other. In the event of a termination, Temagami shall pay for all reasonable charges for work performed and demobilization by SEI to the date of Notice of Termination. The limitation of liability and indemnity obligations of this Contract shall survive and be binding notwithstanding any termination of this Contract.

All notices under this Contract shall be delivered in writing (facsimile, email, regular mail, hand delivery or express courier; with postage fully prepaid if sent by mail or express courier) to the party's contact persons. Contact information is provided in Appendix B of this Contract. The contact persons' name and address can be changed at any time through written notice to the other party.

SEI may suspend performance of services under this Contract if:

- 1. Temagami fails to make payment in accordance with the terms hereof:
- 2. Temagami becomes insolvent, enters bankruptcy, receivership, or other like proceeding (voluntary or involuntary) or makes an assignment for the benefit of creditors; or
- 3. SEI reasonably believes that Temagami will be unable to pay SEI in accordance with the terms herein and notifies Temagami in writing prior to such suspension of services.

If any such suspension, following resolution of the suspension, causes an increase in the time required for SEI's performance, the performance schedule and/or period for performance shall be extended for a period of time equal to the suspension period.

5. Amendment and Modifications to this Agreement

SEI and Temagami recognize that changes to the original approved project budgets and scope of work may be necessary as the project progresses. Change orders will be communicated by SEI to Temagami, in a timely manner and before any work proceeds, via email. Temagami has a duty to promptly consider the change order request and advise SEI in a timely manner in writing (email acceptable) on how to proceed. If an agreement cannot be reached with respect to the change order, then SEI has the right to terminate the Contract upon written notice to Temagami.

6. Assignment, Delegation and Subcontracting

Neither party shall assign its interest, rights or obligations in this Contract without the prior written consent of the other.

Temagami recognizes and agrees that SEI can retain subcontracting firms to fulfill its work obligations. Subcontracting shall not be considered an assignment of rights or obligations, but is a means of fulfilling the rights and obligations of the contracting party though a subcontractor. Temagami shall be consulted and agree on the subcontracting firms to be selected. SEI will be responsible for the work done by all of its subcontractors, collectively to the maximum extent stated in Limitation of Liability. Temagami agrees that it will only assert claims against and seek to recover losses, damages or other liabilities from SEI.

7. Standard of Care

In the performance of professional services, SEI will use the level of care and skill ordinarily exercised by reputable members of SEI's profession currently practicing in the same locality under similar conditions.

8. Quality and Replacement of Key Personnel

SEI shall quickly notify Temagami of any change in key planned personnel for the on-going work.

STORY ENVIRONMENTAL INC. Page 2 of 9

9. Data and Information

Temagami shall make available to SEI all relevant information and documents under its control regarding past, present and proposed conditions of the site, including but not limited to plot plans, topographic studies, hydrologic data and previous soil and geologic data including borings, field or laboratory tests and written reports and shall immediately transmit to SEI any new information that becomes available or any changes in plans. Temagami shall also provide SEI with the location of all known underground utilities and structures on the subject property (if required).

10. Permits

Unless otherwise agreed in writing, SEI shall apply for and obtain all required work permits and licenses.

11. Utilities and Access

Temagami shall make all necessary arrangements for right of entry to provide SEI (and their subcontractors) access to the sites for all equipment and personnel at no charge to SEI. While SEI will take all reasonable precautions to minimize any damage to the property, Temagami agrees to hold SEI harmless for any damages to any subterranean structures or any damage required for right of entry that have been previously communicated and agreed to by Temagami unless caused by the sole negligence or wilful misconduct of SEI.

12. Disposal of Samples, Materials and Contaminated Equipment

All samples obtained pursuant to this Contract remain the property and responsibility of Temagami. Uncontaminated soil and rock samples or other specimens may be disposed of thirty (30) days after submission of the directly related work product, due pursuant to the proposal, or shall be returned to Temagami upon request. Thirty (30) days after submission of the directly related work product, all contaminated samples, materials and equipment (containing or potentially containing hazardous constituents), including, but not limited to, soil cuttings, contaminated purge water, and/or other environmental wastes obtained pursuant to this Contract remain the property and responsibility of Temagami and shall be returned to Temagami for proper disposal or disposed of properly after agreement with Temagami.

13. Control of Work and Job-Site Safety

SEI is responsible for the activities of its employees and subcontractors. Insofar, as job site safety is concerned, SEI is only responsible for the health and safety of its employees and subcontractors. If Temagami has specific safety requirements, they will be provided to SEI as necessary.

14. Deliverables and Acceptance

All deliverables are to be provided in DRAFT for review and comment, prior to finalization and submission to Temagami. All deliverables and services shall be provided to best industry practices.

15. Delays and Force Majeure

Temagami shall not hold SEI liable for damages or delays in performance caused by acts or omissions of SEI, its subcontractors, regulatory agencies, government officials, civil or labour disputes, acts of God, nature, or terror, disruptions of the internet or telecommunications, that are beyond the reasonable control of SEI. In the event of any such delay, agreed upon completion dates shall be extended as necessary and Temagami shall pay SEI for services (i.e., equipment rescheduling, personnel charges, reassignment

STORY ENVIRONMENTAL INC. Page 3 of 9

adjustments, and other related costs incurred including but not limited to, labour and material escalation, and possible increased overhead costs) performed to the delay commencement date plus reasonable delay charges.

Delays in excess of thirty (30) days, at the option of either party, shall make this Contract subject to termination or to renegotiation.

16. Limitation of Liability

Temagami shall immediately notify SEI in writing of any deficiencies (suspected or otherwise) arising directly or indirectly from SEI's negligence or wilful misconduct. Failure to notify SEI of these deficiencies shall relieve SEI from any further liability for such deficiencies. Temagami agrees that any claim which Temagami has or hereafter may have against SEI and its professional staff regarding the services provided, howsoever arising, whether in contract or in tort, shall be absolutely limited to fifty thousand dollars (\$50 000) or the total fees for the services provided under the Contract, whichever is greater, and under no circumstances shall the claim for liability exceed the limit of the applicable insurance, in place at the time of the signing of this Contract. In any event, the liability of SEI shall not exceed the cost of reinstatement of the work. Any professional staff shall have no professional design responsibility for any part of the work not designed by him or her and, further, SEI and its professional staff shall have no liability for any claim unless initiated within six (6) months from the date of substantial performance of the services provided.

Neither party shall be responsible to the other for lost revenues, lost profits, cost of capital, claims by customers, loss of data or any other special indirect, consequential or punitive damages.

17. Insurance

SEI maintains the following insurance:

- Worker's Compensation Insurance and automobile insurance in compliance with statutory limits.
- Commercial General Liability (Per Claim: \$5 000 000; Aggregate Amount Payable of NIL).
- Professional Liability Insurance (Per Claim: \$2 000 000; Aggregate Amount Payable of \$2 000 000).

Insurance Certificates can be provided to Temagami upon written request. Temagami can be added as an additional named insured, upon request, to the relevant SEI insurance policies.

18. Public Responsibility

SEI will endeavour to promptly alert Ternagami to any matter of which SEI becomes aware and believes requires Ternagami's immediate attention to help to protect public health and safety, or which SEI believes requires Ternagami to notify others, or to otherwise conform to applicable codes, standards, regulations or ordinances.

19. Subsurface Risks

The conditions which SEI interprets, from environmental, geological, geotechnical, geochemical, hydrogeological data, as existing in the subsurface may differ from those that actually exist. Furthermore, Temagami acknowledges that with the passing of time, natural occurrences and direct or indirect human intervention at or near the site may substantially alter interpreted conditions.

Subsurface sampling and investigation can result in damage or injury to underground structures or utilities and unavoidable contamination of certain subsurface areas, such as but not limited to geological formations and groundwater, not known to be previously contaminated. SEI adheres to industry standard procedures and care when conducting all sampling and investigations. However, when the services as

STORY ENVIRONMENTAL INC. Page 4 of 9

part of this Contract include subsurface investigations, Temagami agrees to waive any claim against SEI and agrees to defend, indemnify and hold SEI harmless from any injury, claim, loss or expense which may arise as a result of alleged or actual cross-contamination caused by the subsurface investigation or any damage or injury to underground structure, formation, body, or utility unless caused by the gross negligence or wilful misconduct of SEI or its subcontractors.

20. Discovery and Notification of Hazardous Materials

Prior to commencing the work, Temagami shall make available to SEI all known information and documents that relate to past or existing conditions of the site and surrounding areas, including the identity, location, quantity, nature or characteristics of any hazardous materials or suspected hazardous materials or suspected hazardous materials or suspected hazardous materials may be discovered on the project site property or surrounding properties.

21. Field Representation

Unless otherwise expressly agreed in writing, SEI shall not be responsible for the safety or direction of the means and methods of contractors or their employees or agents that are not hired by SEI for the Temagami sites, and the presence of SEI at the Temagami's sites will not relieve the contractor of its responsibilities for performing the work in accordance with applicable regulations, or in accordance with project plans and specifications. If necessary, Temagami will advise any contractors that SEI's services are so limited. SEI will not assume the role of "general contractor", "prime contractor", "principal contractor", "constructor", "controlling employer", or their equivalents unless the scope of such services are expressly agreed in writing.

22. Indemnification

SEI agrees, at all time, to defend, indemnify, protect and hold harmless Temagami and its directors, officers, and employees from and against all claims, liabilities, damages or expenses (including but not limited to reasonable legal fees) arising from delay of the project, personal injury, reduction of property value, fear of or actual exposure to or release of toxic or hazardous substances, and any consequential damages of whatever nature, to any third-party property to the extent that all claims, damages, losses, or expenses are ultimately defermined to result from SEI's gross negligence or wilful misconduct. Such indemnification, limited by the Limitation of Liability clauses provided in this Contract, shall be Temagami's sole and exclusive remedy against SEI.

Temagami agrees, at all times, to defend, indemnify, protect and hold harmless SEI and its officers, employees, subcontractors, consultants, agents from any and all claims, liabilities, damages or expenses, including but not limited to delay of the project, personal injury, reduction of property value, fear of or actual exposure to or release of toxic or hazardous substances, and any consequential damages of whatever nature, which may arise directly or indirectly, to any party, as a result of the services provided by SEI under this Contract. To the fullest extent permitted by law, such indemnification shall apply regardless of breach of contract or strict liability of SEI. Such indemnification shall not apply should the injury or loss be determined to be the result of sole negligence by SEI.

23. Invoicing and Payment Terms

Unless otherwise stated and agreed, invoices will be submitted by SEI on a monthly basis. Invoices shall include the following information:

- · Total number of hours charged by each employee during the covered period; and
- Travel/disbursement costs incurred including all applicable receipts.

Invoicing will be done according to SEI's fee and disbursement schedule. This fee and disbursement schedule will be updated every year. Yearly fee increases will be incorporated into any budgets provided as part of the Contract. SEI only charges for hours necessarily and

STORY ENVIRONMENTAL INC. Page 5 of 9

actually expended. Disbursements (e.g., mobile phones, conference calls, office supplies, etc.) are charged at a rate of 5% of SEI's monthly fees. In the event a deposit is a requirement of the Contract, services will commence upon receipt.

Unless otherwise stated and agreed, invoices will be submitted by SEI on a monthly basis and will be due and payable on the invoice date. Invoices not paid within thirty (30) days of the invoice date shall be subject to a late fee of one and one-half percent (1.5%) per month (18% per annum) computed at 31 days from the date of the invoice on all past due invoices. In addition, any collection fees, legal fees, court costs, and other related expenses incurred by SEI in the collection of an undisputed delinquent invoice/s, deemed due to SEI, shall be paid by Temagami.

In the event that Temagami disputes all or part of an invoice, Temagami must advise SEI in writing within fifteen (15) days of the invoice date and parties shall promptly resolve any disputed items. Undisputed portions are subject to payment upon receipt.

24. Intellectual Property

In the event that the services provided by SEI under this Contract involve SEI providing Temagami with the right to use or access proprietary software, programs, information management solutions, hosting services, technology, information or data, SEI grants Temagami the non-exclusive, non-transferrable, non-assignable license to use the SEI products for Temagami's internal purposes, solely in connection with the services. Except for this limited license, SEI expressly reserves all other rights in and to the SEI products/materials.

25. Confidentiality and Protection of Data

Information obtained by SEI, during the course of this Contract will be for the exclusive use of SEI and will not be divulged to others without prior written consent from Temagami.

26. Exclusive Use

Services provided under this Contract, including all reports, information or recommendations prepared or issued by SEI, are for the exclusive use of Temagami for the project specified. If the use of this information is for the purposes of developing a public document and interpretation and publication of this information will be required, the form of such reporting will be agreed to by Temagami and SEI.

SEI will not be responsible for any interpretations or recommendations generated or made by others, which are based, whole or in part, on SEI's data, interpretations or recommendations.

27. Disputes

Any dispute arising hereunder shall first be resolved by taking the following steps, where a successive step is taken if the issue is not resolved at the preceding step: 1) by the technical and contractual personnel for each party performing this Contract, 2) by executive management of each party, 3) by mediation, or 4) through the court system of the jurisdiction of the SEI office that is entering into this Contract. Each party hereby waives the right to trial by jury for any disputes arising out of this Contract. Except as otherwise provided herein, each party shall be responsible for its own legal costs and fees.

28. Governing Law

This Contract is governed by the laws of the province of Ontario.

29. Authorization to Proceed

By signing below, Temagami hereby authorizes SEI to proceed with the Services in accordance to the terms and conditions of this Contract.

Story Environmental Inc.

The Corporation of the Municipality of Temagami

Maria Story, P. Eng.

Patrick Cormier
Chief Administrative Officer

Date

Date

APPENDIX A - COST ESTIMATE

Cost Estimate - Temagami Landfill Monitoring 2018 (Strathy)

Proposal Number 998-300 Project Location Temagami Ontario

	tem	Personnel	Hours	Rate	Budget		Comments
					Denger		Constends
nnual Landfill	Surface Water Monitoring						
	Sield Phonontine	040		505.00			1 hour per event * two sampling events + 2hours for office
	Field Preparation Field Work	CAD	4	\$85.00	\$340.00		planning of sampling work
	Travel	CAD	0.5	\$85.00 \$85.00	\$255.00 \$42.50		
	Administration	888	0.25	\$56 00	\$14.00		10 km round top off highway (15 minute round-top, time:
	Project Management	MES	0.5	\$165.00	\$82.50		
	r toject management	MES	03	\$100.UU			
					Subtotal:	\$7,34,00	
nnual Monton	ng Report (memo)						
	Project Management	MES	0.5	\$165.00	\$82.50	1:	
	Data Compilation and Analysis	CAD	4	\$85 00	5340 00		
	Report Writing	ÇAD	6	\$85 00	5510 00		4.
	Drafting	NRM	1	\$85 00	\$85 00	177	updated maps of site and MW locations
	Initial Review	ACS	1	\$120 00	5120 00		
	Report Preparation	868	0.5	\$56 DO	\$28 00		printing and binding
	Review	MES	1	\$165.00 I	\$165.00		
					Subtotal:	\$1,330,50	
	<i>b</i>			Sut	total Fees:	\$2,064.50	
				1		ti-	
Isbursemer			1000	2000			
	ltem		Quantity	Rate	Budget		
ampling Found	anen!						
ampling Equip			1.0	\$95.00	595.00		
ampling Equip	YSI Multi-meter (per day)		1,0	\$95 00	\$95.00 Subtotal:		
			1,0	\$95 00	\$95.00 Subtotal:		
	YS Multi-meter (per day)				Subtotal:	\$95.00	
			1.0	\$95 00 \$0 55	Subtotal: \$11 00	\$95.00	10 km round trip. 2 mps. Off highway only
	YS Multi-meter (per day)				Subtotal:	\$95.00	10 km round trip. 2 mps. Off highway only
avel to Site	YSI Multi-meter (per day) Mileage				Subtotal: \$11 00	\$95.00	10 km round trip. 2 mps. Off highway only
avel to Site	YSI Multi-meter (per day) Mileage		20 0	\$0.55	Subtotal: \$11 00 Subtotal:	\$95.00	
avel to Site	YSI Multi-meter (per day) Mileage		20 0	\$0 55 \$263 00	\$11 00 Subtotal: \$526 00	\$95.00	2 samples (\$131 50 each for package), twice per year
avel to Site	YSI Multi-meter (per day) Mileage Mileage Surface Water Samples		20 0	\$0.55	\$11 00 \$ubtotal: \$126 00 \$75 00	\$95.00	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entre year
avel to Site	YSI Multi-meter (per day) Mileage Mileage Surface Water Samples		20 0	\$0 55 \$263 00	\$11 00 Subtotal: \$526 00	\$11.00	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entire year (piggy back onto other sites)
arel to Site	YSI Multi-meter (per day) Mileage Mileage Surface Water Samples		20 0	\$0 55 \$263 00	\$11.00 \$ubtotal: \$525.00 \$75.00 \$ubtotal:	\$95.00	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entre year
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avel to Site	YSI Multi-meter (per day) Mileage India Analysis Surface Water Samples Courier		20 0	\$0 55 \$263 00	\$11.00 \$ubtotal: \$525.00 \$75.00 \$ubtotal:	\$11.00	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entire year (piggy back onto other sites)
avel to Site	YSI Multi-meter (per day) Mileage Mileage Surface Water Samples		20 0	\$0 55 \$263 00	\$11.00 \$ubtotal: \$525.00 \$75.00 \$ubtotal:	\$11.00	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entire year (piggy back onto other sites)
ravel to Site	YSI Multi-meter (per day) Mileage India Analysis Surface Water Samples Courier		20 0	\$0 55 \$263 00	\$11.00 \$ubtotal: \$525.00 \$75.00 \$ubtotal:	\$11.00	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entire year (piggy back onto other sites)
ampling Equip	YSI Multi-meter (per day) Mileage Mileage Surface Water Samples Counier		20 0	\$0 55 \$263 00	\$11.00 \$ubtotal: \$525.00 \$75.00 \$ubtotal:	\$11.00	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entire year (piggy back onto other sites)
ravel to Site	YSI Multi-meter (per day) Mileage India Analysis Surface Water Samples Courier		20 0	\$0.55 \$263.00 \$75	\$11.00 \$ubtotal: \$525.00 \$75.00 \$ubtotal:	\$95.00 \$11.00 \$601.0 \$631.1	2 samples (\$131.50 each for package), twice per year Estimate 1 extra coder required for entire year (piggy back onto other sites)

TOTAL BUDGET: \$2,801.55

Project No. 048-17-03-2018
The Corporation of the Municipality of Temagami

APPENDIX B - CONTACT INFORMATION

Story Environmental Inc.

Maria Story, P.Eng. President

maria.story@storyenvironmental.com

t 705-672-3324 ext. 202 f 705-672-3325

332 Main Street (P.O. Box 716) Haileybury, ON, P0J 1K0

The Corporation of the Municipality of Temagami

Patrick Cormier Chief Administrative Officer

cao@temagami.ca

t (705) 569-3272 f (705) 569-4151

7 Lakeshore Dr. P.O. Box 220 Temagami, Ontario P0H 2H0



Project No. 048-17-02-2018

CONSULTING SERVICES CONTRACT

Story Environmental Inc. ("SEI"), the first party, and The Corporation of the Municipality of Temagami ("Temagami"), the second party, agree that the following terms and conditions apply to any services, including subsequent services and charges (collectively "Services"), to be provided by SEI relating to Project No. 048-17-02 Sisk Landfill Monitoring and Report (collectively the "Contract").

1. Scope of Work

The Sisk Landfill is scheduled to be monitored on a biannual basis for 2018. A monitoring report is to be prepared annually. The following scope of work will be completed, as outlined:

- Sisk Landfill groundwater monitoring will take place at all four (4) existing groundwater monitoring wells (i.e. MW1, MW2, MW3, and MW4), which includes the collection of groundwater samples and measurement of groundwater levels. The static water level in each well will be recorded, along with field parameters, including: temperature, pH, conductivity, oxidation reduction potential, and dissolved oxygen. The groundwater samples will be analyzed at an accredited laboratory for general chemistry, dissolved metals, nutrients, and leachate indicator parameters;
- Surface water monitoring will take place at the Sisk Landfill, at one offsite location, located at the unnamed lake to the north of
 the landfill site (i.e. SW-1). At the surface water sampling location field parameters will be measured, including: temperature,
 pH, conductivity, and dissolved oxygen, and a surface water sample will be collected. The surface water sample will be analyzed
 at an accredited laboratory for general chemistry, total metals, nutrients, and leachate indicator parameters;
- · Landfill Gas Monitoring will include field measurements of combustible vapour levels at each monitoring well;
- A survey of the top of water elevation for the un-named lake;
- Topographic survey, using the Unmanned Aerial Vehicle ("UAV"), of the Sisk landfill to determine the estimated volume of waste, calculate of the remaining capacity of the landfill, and estimate the remaining site life;
- Quality Assurance/Quality Control ("QA/QC") samples for the groundwater program will be collected. The samples will combine
 to be at least 10% of the total samples collected for the program; and
- An annual site monitoring report will be prepared to summarize the analytical results of the current year. The report will also
 include an interpretation of the results and recommendations for future work.

2. Schedule

The monitoring program will consist of samples being collected on a biannual basis. The sampling would be conducted in June/July and October of 2018. The surveying event will take place on the same day as the October sampling event to reduce travel costs. The actual date of sampling will be determined closer to the sampling time to avoid adverse weather, which can cause delays. The annual report will be completed in draft by 16 April 2019, and will be finalized and issued to the Corporation of the Municipality of Temagami and to the Ministry of Environment and Climate Change ("MOECC") by 30 May 2019.

STORY ENVIRONMENTAL INC. Page 1 of 9

3. Budget

As per the cost estimate provided in Appendix A of this Contract, SEI has estimated that the total cost to complete this project to be \$8700 (excluding HST).

The following assumptions were used in the development of the cost estimate:

- the budget allows for the replacement of all waterra sample tubing, however the tubing is only replaced when necessary;
- all wells can be easily located and are accessible (keys for locks, etc.);
- monitoring events will be conducted in one day;
- at Sisk Landfill MW1, MW2 and MW4 are possible leachate wells:
- one staff member from The Corporation of the Municipality of Temagami will be present on site during each monitoring event;
- electronic drawings are available and will be provided; and
- electronic files, for any of the historical analytical data which SEI does not have, will be provided.

4. Terms, Termination, and Suspension

The Contract could be terminated upon any of the following:

- a. Notification by one of the parties that they wish to terminate the Contract; or
- b. The date a modified or new Contract commences.

This Contract may be terminated by either party upon thirty (30) days written notice to the other. In the event of a termination, Temagami shall pay for all reasonable charges for work performed and demobilization by SEI to the date of Notice of Termination. The limitation of liability and indemnity obligations of this Contract shall survive and be binding notwithstanding any termination of this Contract.

All notices under this Contract shall be delivered in writing (facsimile, email, regular mail, hand delivery or express courier; with postage fully prepald if sent by mail or express courier) to the party's contact persons. Contact information is provided in Appendix B of this Contract. The contact persons' name and address can be changed at any time through written notice to the other party.

SEI may suspend performance of services under this Contract if:

- 1. Temagami fails to make payment in accordance with the terms hereof;
- 2. Temagami becomes insolvent, enters bankruptcy, receivership, or other like proceeding (voluntary or involuntary) or makes an assignment for the benefit of creditors; or
- SEI reasonably believes that Temagami will be unable to pay SEI in accordance with the terms herein and notifies Temagami
 in writing prior to such suspension of services.

If any such suspension, following resolution of the suspension, causes an increase in the time required for SEI's performance, the performance schedule and/or period for performance shall be extended for a period of time equal to the suspension period.

5. Amendment and Modifications to this Agreement

SEI and Temagami recognize that changes to the original approved project budgets and scope of work may be necessary as the project progresses. Change orders will be communicated by SEI to Temagami, in a timely manner and before any work proceeds, via email. Temagami has a duty to promptly consider the change order request and advise SEI in a timely manner in writing (email acceptable) on

how to proceed. If an agreement cannot be reached with respect to the change order, then SEI has the right to terminate the Contract upon written notice to Temagami.

6. Assignment, Delegation and Subcontracting

Neither party shall assign its interest, rights or obligations in this Contract without the prior written consent of the other.

Temagami recognizes and agrees that SEI can retain subcontracting firms to fulfil its work obligations. Subcontracting shall not be considered an assignment of rights or obligations, but is a means of fulfilling the rights and obligations of the contracting party though a subcontractor. Temagami shall be consulted and agree on the subcontracting firms to be selected. SEI will be responsible for the work done by all of its subcontractors, collectively to the maximum extent stated in Limitation of Liability. Temagami agrees that it will only assert claims against and seek to recover losses, damages or other liabilities from SEI.

7. Standard of Care

In the performance of professional services, SEI will use the level of care and skill ordinarily exercised by reputable members of SEI's profession currently practicing in the same locality under similar conditions.

8. Quality and Replacement of Key Personnel

SEI shall quickly notify Ternagami of any change in key planned personnel for the on-going work.

Data and Information

Temagami shall make available to SEI all relevant information and documents under its control regarding past, present and proposed conditions of the site, including but not limited to plot plans, topographic studies, hydrologic data and previous soil and geologic data including borings, field or laboratory tests and written reports and shall immediately transmit to SEI any new information that becomes available or any changes in plans. Temagami shall also provide SEI with the location of all known underground utilities and structures on the subject property (if required).

10. Permits

Unless otherwise agreed in writing, SEI shall apply for and obtain all required work permits and licenses.

11. Utilities and Access

Temagami shall make all necessary arrangements for right of entry to provide SEI (and their subcontractors) access to the sites for all equipment and personnel at no charge to SEI. While SEI will take all reasonable precautions to minimize any damage to the property, Temagami agrees to hold SEI hamless for any damages to any subterranean structures or any damage required for right of entry that have been previously communicated and agreed to by Temagami unless caused by the sole negligence or wilful misconduct of SEI.

12. Disposal of Samples, Materials and Contaminated Equipment

All samples obtained pursuant to this Contract remain the property and responsibility of Temagami. Uncontaminated soil and rock samples or other specimens may be disposed of thirty (30) days after submission of the directly related work product, due pursuant to the proposal, or shall be returned to Temagami upon request. Thirty (30) days after submission of the directly related work product, all contaminated samples, materials and equipment (containing or potentially containing hazardous constituents), including, but not limited to, soil cuttings,

STORY ENVIRONMENTAL INC. Page 3 of 9

contaminated purge water, and/or other environmental wastes obtained pursuant to this Contract remain the property and responsibility of Temagami and shall be returned to Temagami for proper disposal or disposed of properly after agreement with Temagami.

13. Control of Work and Job-Site Safety

SEI is responsible for the activities of its employees and subcontractors. Insofar, as job site safety is concerned, SEI is only responsible for the health and safety of its employees and subcontractors. If Ternagami has specific safety requirements, they will be provided to SEI as necessary.

14. Deliverables and Acceptance

All deliverables are to be provided in DRAFT for review and comment, prior to finalization and submission to Temagami. All deliverables and services shall be provided to best industry practices.

15. Delays and Force Majeure

Temagami shall not hold SEI liable for damages or delays in performance caused by acts or omissions of SEI, its subcontractors, regulatory agencies, government officials, civil or labour disputes, acts of God, nature, or terror, disruptions of the internet or telecommunications, that are beyond the reasonable control of SEI. In the event of any such delay, agreed upon completion dates shall be extended as necessary and Temagami shall pay SEI for services (i.e., equipment rescheduling, personnel charges, reassignment adjustments, and other related costs incurred including but not limited to, labour and material escalation, and possible increased overhead costs) performed to the delay commencement date plus reasonable delay charges.

Delays in excess of thirty (30) days, at the option of either party, shall make this Contract subject to termination or to renegotiation.

16. Limitation of Liability

Temagami shall immediately notify SEI in writing of any deficiencies (suspected or otherwise) arising directly or indirectly from SEI's negligence or wilful misconduct. Failure to notify SEI of these deficiencies shall relieve SEI from any further liability for such deficiencies. Temagami agrees that any claim which Temagami has or hereafter may have against SEI and its professional staff regarding the services provided, howsoever arising, whether in contract or in tort, shall be absolutely limited to fifty thousand dollars (\$50 000) or the total fees for the services provided under the Contract, whichever is greater, and under no circumstances shall the claim for liability exceed the limit of the applicable insurance, in place at the time of the signing of this Contract. In any event, the liability of SEI shall not exceed the cost of reinstatement of the work. Any professional staff shall have no professional design responsibility for any part of the work not designed by him or her and, further, SEI and its professional staff shall have no liability for any claim unless initiated within six (6) months from the date of substantial performance of the services provided.

Neither party shall be responsible to the other for lost revenues, lost profits, cost of capital, claims by customers, loss of data or any other special indirect, consequential or punitive damages.

17. Insurance

SEI maintains the following insurance:

- Worker's Compensation Insurance and automobile insurance in compliance with statutory limits.
- Commercial General Liability (Per Claim: \$5 000 000; Aggregate Amount Payable of NIL).

STORY ENVIRONMENTAL INC. Page 4 of 9

Professional Liability Insurance (Per Claim: \$2 000 000; Aggregate Amount Payable of \$2 000 000).

Insurance Certificates can be provided to Temagami upon written request. Temagami can be added as an additional named insured, upon request, to the relevant SEI insurance policies.

18. Public Responsibility

SEI will endeavour to promptly alert Temagami to any matter of which SEI becomes aware and believes requires Temagami's immediate attention to help to protect public health and safety, or which SEI believes requires Temagami to notify others, or to otherwise conform to applicable codes, standards, regulations or ordinances.

19. Subsurface Risks

The conditions which SEI interprets, from environmental, geological, geotechnical, geochemical, hydrogeological data, as existing in the subsurface may differ from those that actually exist. Furthermore, Temagami acknowledges that with the passing of time, natural occurrences and direct or indirect human intervention at or near the site may substantially alter interpreted conditions.

Subsurface sampling and investigation can result in damage or injury to underground structures or utilities and unavoidable contamination of certain subsurface areas, such as but not limited to geological formations and groundwater, not known to be previously contaminated. SEI adheres to industry standard procedures and care when conducting all sampling and investigations. However, when the services as part of this Contract include subsurface investigations, Temagami agrees to waive any claim against SEI and agrees to defend, indemnify and hold SEI harmless from any injury, claim, loss or expense which may arise as a result of alleged or actual cross-contamination caused by the subsurface investigation or any damage or injury to underground structure, formation, body, or utility unless caused by the gross negligence or wilful misconduct of SEI or its subcontractors.

20. Discovery and Notification of Hazardous Materials

Prior to commencing the work, Temagami shall make available to SEI all known information and documents that relate to past or existing conditions of the site and surrounding areas, including the identity, location, quantity, nature or characteristics of any hazardous materials or suspected hazardous materials or subterranean utilities. Temagami recognizes that hazardous materials or suspected hazardous materials may be discovered on the project site property or surrounding properties.

21. Field Representation

Unless otherwise expressly agreed in writing, SEI shall not be responsible for the safety or direction of the means and methods of contractors or their employees or agents that are not hired by SEI for the Temagami sites, and the presence of SEI at the Temagami's sites will not relieve the contractor of its responsibilities for performing the work in accordance with applicable regulations, or in accordance with project plans and specifications. If necessary, Temagami will advise any contractors that SEI's services are so limited. SEI will not assume the role of "general contractor", "prime contractor", "principal contractor", "constructor", "controlling employer", or their equivalents unless the scope of such services are expressly agreed in writing.

22. Indemnification

SEI agrees, at all time, to defend, indemnify, protect and hold harmless Temagami and its directors, officers, and employees from and against all claims, liabilities, damages or expenses (including but not limited to reasonable legal fees) arising from delay of the project, personal injury, reduction of property value, fear of or actual exposure to or release of toxic or hazardous substances, and any

consequential damages of whatever nature, to any third-party property to the extent that all claims, damages, losses, or expenses are ultimately determined to result from SEI's gross negligence or wilful misconduct. Such indemnification, limited by the Limitation of Liability clauses provided in this Contract, shall be Temagami's sole and exclusive remedy against SEI.

Temagami agrees, at all times, to defend, indemnify, protect and hold harmless SEI and its officers, employees, subcontractors, consultants, agents from any and all claims, liabilities, damages or expenses, including but not limited to delay of the project, personal injury, reduction of property value, fear of or actual exposure to or release of toxic or hazardous substances, and any consequential damages of whatever nature, which may arise directly or indirectly, to any party, as a result of the services provided by SEI under this Contract. To the fullest extent permitted by law, such indemnification shall apply regardless of breach of contract or strict liability of SEI. Such indemnification shall not apply should the injury or loss be determined to be the result of sole negligence by SEI.

23. Invoicing and Payment Terms

Unless otherwise stated and agreed, invoices will be submitted by SEI on a monthly basis. Invoices shall include the following information:

- Total number of hours charged by each employee during the covered period; and
- Travel/disbursement costs incurred including all applicable receipts.

Invoicing will be done according to SEI's fee and disbursement schedule. This fee and disbursement schedule will be updated every year. Yearly fee increases will be incorporated into any budgets provided as part of the Contract. SEI only charges for hours necessarily and actually expended. Disbursements (e.g., mobile phones, conference calls, office supplies, etc.) are charged at a rate of 5% of SEI's monthly fees. In the event a deposit is a requirement of the Contract, services will commence upon receipt.

Unless otherwise stated and agreed, invoices will be submitted by SEI on a monthly basis and will be due and payable on the invoice date. Invoices not paid within thirty (30) days of the invoice date shall be subject to a late fee of one and one-half percent (1.5%) per month (18% per annum) computed at 31 days from the date of the invoice on all past due invoices. In addition, any collection fees, legal fees, court costs, and other related expenses incurred by SEI in the collection of an undisputed delinquent invoice/s, deemed due to SEI, shall be paid by Temagami.

In the event that Temagami disputes all or part of an invoice, Temagami must advise SEI in writing within fifteen (15) days of the invoice date and parties shall promptly resolve any disputed items. Undisputed portions are subject to payment upon receipt.

24. Intellectual Property

In the event that the services provided by SEI under this Contract involve SEI providing Temagami with the right to use or access proprietary software, programs, information management solutions, hosting services, technology, information or data, SEI grants Temagami the non-exclusive, non-transferrable, non-assignable license to use the SEI products for Temagami's internal purposes, solely in connection with the services. Except for this limited license, SEI expressly reserves all other rights in and to the SEI products/materials.

25. Confidentiality and Protection of Data

Information obtained by SEI, during the course of this Contract will be for the exclusive use of SEI and will not be divulged to others without prior written consent from Temagami.

STORY ENVIRONMENTAL INC. Page 6 of 9

26. Exclusive Use

Services provided under this Contract, including all reports, information or recommendations prepared or issued by SEI, are for the exclusive use of Temagami for the project specified. If the use of this information is for the purposes of developing a public document and interpretation and publication of this information will be required, the form of such reporting will be agreed to by Temagami and SEI.

SEI will not be responsible for any interpretations or recommendations generated or made by others, which are based, whole or in part, on SEI's data, interpretations or recommendations.

27. Disputes

Any dispute arising hereunder shall first be resolved by taking the following steps, where a successive step is taken if the issue is not resolved at the preceding step: 1) by the technical and contractual personnel for each party performing this Contract, 2) by executive management of each party, 3) by mediation, or 4) through the court system of the jurisdiction of the SEI office that is entering into this Contract. Each party hereby waives the right to trial by jury for any disputes arising out of this Contract. Except as otherwise provided herein, each party shall be responsible for its own legal costs and fees.

28. Governing Law

This Contract is governed by the laws of the province of Ontario.

29. Authorization to Proceed

By signing below, Temagami hereby authorizes SEI to proceed with the Services in accordance to the terms and conditions of this Contract.

Story Environmental Inc.	The Corporation of the Municipality of Temagami
MATorz	
Maria Story, P. Eng. C	Patrick Cormier Chief Administrative Officer
16 March 2017	
Date	Date

APPENDIX A - COST ESTIMATE

opposal Number	990-300					
	Temagami, Ontario					and the second second second second second
rofessional F			41367			
	hers	Personnel	Hours	Rate	Budget	Comments
TRICAL EURORIA GI	Oundwater Manitoring Office - Preparation for Field	CAD		605		
	Ciace - Preparetion for Pleto	CAD	2	\$85	\$170	1 hour per event " two sampling events
						0.75 hours per well, including gas monitoring,
						purging and sampling, 4 wells in total * two
	Field Work - Sampling (GW)	CAD	7	\$85	\$595	sampling events + 1 extra hour for ground
	i de la constanti de la consta	UPID		403	4050	supervision during the October UAV flight 0.5 hours per SW sample, 1 sampling location
	Field Work - Sampling (SW)	CAD	1	\$85	\$85	two sampling events
	Travel	CAD	2	\$85	\$170	1 hr top * two tops
	Administration	BEB	1 :	\$58	* \$56	
	Project Management	MES	1	\$165	\$165	
					Subtotal: \$1,241	
				1		
nnual Monitoring		1400				
	Project Management	MES	2	\$185	\$330	
	Data Compilation and Analysis Report Writing	CAD	12	\$85	\$1,020	1.5 days to do volume calcs and spreadshee
	Drafting	NRM	15	\$85 \$85	\$1,275 \$170	2 days
	Initial Review	ACS	3	\$120	\$360	updated maps of site
	Report Preparation	BEB	1	\$56	\$58	priniting and binding
	Raylaw	MES	3	\$165	\$495	pinearig and diriging
					Subtatal: \$3,706	
					340421.44,144	
	1	12	1			
nnual Surveying					- 1	
	Preparing SFOC for UAV Survey	NRM	4	\$80	\$320	obtaining legal permission to fly in the area
	Field Work - UAV light	NAM	4	\$85	\$340	Set-Up GCP's and Flying UAV
	Tavel	MAM	1	\$85	\$85	1 hr trip * one trip
	Processing Imagery and Survey	NRM	2	\$80	\$160	
	Drafting	NAM	4	\$80	\$320	
					Subtotal: \$1,225	
				Su	ototal Fees: \$6,172	
na sa	<u> </u>					
Asbursement						
sbursementi	tem tem		Quantity	Rate	Budget	
	tem		Quantity	Rate	Budget	
	tem not		30.1			
	nt Walerra Tubing		150	\$0.5	\$68	If required
	item ant Waterra Tubing Waterra Foot Valve		150	\$0.5	\$68 \$32	If required
	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters		150 4 8	\$0.5 \$8 \$25	\$68 \$32 \$200	if required 4 wells * 2 events
	Item ent Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day)		150 4 B	\$0.5 \$8 \$25 \$25	\$68 \$32 \$200 \$25	If required 4 wells * 2 events 0.5 day * 2 events
	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters		150 4 8	\$0.5 \$8 \$25	\$68 \$32 \$200	if required 4 wells * 2 events
	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Lovel Meter (per day) YSI Multi-meter (per day)		150 4 B 1	\$0.5 \$8 \$25 \$25 \$25 \$95	\$68 \$32 \$200 \$25 \$95	If required 4 wells * 2 events 0.5 day * 2 events 0.5 day * 2 events
	Item ent Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day)		150 4 B	\$0.5 \$8 \$25 \$25	\$68 \$32 \$200 \$25	If required 4 wells * 2 events 0.5 day * 2 events
	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day)		150 4 8 1 1	\$0.5 \$8 \$25 \$25 \$95 \$85	\$68 \$32 \$200 \$25 \$95 \$85	If required 4 wells "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "2 events
	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV		150 4 B 1 1 1	\$0.5 \$8 \$25 \$25 \$25 \$95 \$85	\$68 \$32 \$200 \$25 \$95 \$85	If required 4 wells * 2 events 0.5 day * 1 events
	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day)		150 4 8 1 1	\$0.5 \$8 \$25 \$25 \$95 \$85	\$68 \$32 \$200 \$25 \$95 \$85 \$85 \$250 \$100	If required 4 wells "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "2 events
	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV		150 4 B 1 1 1	\$0.5 \$8 \$25 \$25 \$25 \$95 \$85	\$68 \$32 \$200 \$25 \$95 \$85	If required 4 wells * 2 events 0.5 day * 1 events
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empling Equipm	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Percise GPS Miteage Sisk (km) (travel to site 2		150 4 8 1 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$95 \$85 \$500 \$200	\$68 \$32 \$20 \$25 \$95 \$85 \$250 \$100 Sububil: \$855	If required 4 wells "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "1 event 0.5 day "1 event 0.5 day "1 event 64 km round trip. (Travel from Temagami acci
empling Equipme	Item ant Waterra Tubing Waterra Foot Valve Waterra 0.45 micron filters Water Level Meter (per day) YSI Multi-meter (per day) Combustible Gas Monitor (per day) eBee UAV Perciae GPS Miteage Sisk (km) (travel to site 2 days per year)		150 4 8 1 1 1 1 0.5 0.5	\$0.5 \$8 \$25 \$25 \$95 \$85 \$85 \$500 \$200	\$68 \$32 \$200 \$25 \$95 \$85 \$85 \$250 \$100 \$ubiobal: \$855	If required 4 wells "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "1 event 0.5 day "1 event 0.5 day "1 event
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TOTAL BUDGET: \$8,696

APPENDIX B - CONTACT INFORMATION

Story Environmental Inc.

Maria Story, P.Eng. President

maria.story@storyenvironmental.com

t 705-672-3324 ext. 202 f 705-672-3325

332 Main Street (P.O. Box 716) Haileybury, ON, POJ 1K0

The Corporation of the Municipality of Temagami

Patrick Cormier Chief Administrative Officer

cao@temagami.ca

t (705) 569-3272 f (705) 569-4151

7 Lakeshore Dr. P.O. Box 220 Temagami, Ontario P0H 2H0

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Project No. 048-17-01-2018

CONSULTING SERVICES CONTRACT

Story Environmental Inc. ("SEI"), the first party, and The Corporation of the Municipality of Temagami ("Temagami"), the second party, agree that the following terms and conditions apply to any services, including subsequent services and charges (collectively "Services"), to be provided by SEI relating to Project No. 048-17-01 Briggs Landfill Monitoring and Report (collectively the "Contract").

1. Scope of Work

The Briggs Landfill is scheduled to be monitored on a biannual basis for 2018. A monitoring report is to be prepared annually. The following scope of work will be completed, as outlined:

- Briggs Landfill groundwater monitoring will take place at all four (4) existing groundwater monitoring wells (i.e. MW1, MW2, MW3, and MW4), which includes the collection of groundwater samples and measurement of groundwater levels. MW5 well was decommissioned in 2016 and is therefore no longer monitored. The static water level in each well will be recorded, along with field parameters, including: temperature, pH, conductivity, oxidation reduction potential, and dissolved oxygen. The groundwater samples will be analyzed at an accredited laboratory for general chemistry, dissolved metals, nutrients, and leachate indicator parameters;
- Landfill Gas Monitoring will include field measurements of combustible vapour levels at each monitoring well at Briggs Landfill;
- Topographic survey, using the Unmanned Aerial Vehicle ("UAV"), of the Briggs Landfill to determine the estimated volume of
 waste, calculation of the remaining capacity of the landfill, and estimate the remaining site life;
- Quality Assurance/Quality Control ("QA/QC") samples for the groundwater program will be collected. The samples will combine
 to be at least 10% of the total samples collected for the sampling campaign (Briggs and Sisk landfills); and
- An annual site monitoring report will be prepared to summarize the analytical results of the current year. The report will include
 an interpretation of the results and recommendations for future work.

2. Schedule

The monitoring program will consist of samples being collected on a biannual basis. The sampling will be conducted in June/July and October of 2018. The surveying event will take place on the same day as the October sampling event to reduce travel costs. The actual date of sampling will be determined closer to the sampling time to avoid adverse weather, which can cause delays. The annual report will be completed in draft by 16 April 2019, and will be finalized and issued to the Corporation of the Municipality of Temagami and to the Ministry of Environment and Climate Change ("MOECC") by 30 May 2019.

3. Budget

As per the cost estimate provided in Appendix A of this Contract, SEI has estimated that the total cost to complete this project to be \$8500 (excluding HST).

STORY ENVIRONMENTAL INC. Page 1 of 9

The following assumptions were used in the development of the cost estimate:

- the budget allows for the replacement of all waterra sample tubing, however the tubing is only replaced when necessary;
- all wells can be easily located and are accessible (keys for locks, etc.);
- monitoring events will be conducted in one day;
- at Briggs Landfill MW1 and MW3 are possible leachate wells;
- one staff member from The Corporation of the Municipality of Temagami will be present on site during each monitoring event;
- electronic drawings are available and will be provided; and
- · electronic files, for any of the historical analytical data which SEI does not have, will be provided.

4. Terms, Termination, and Suspension

The Contract could be terminated upon any of the following:

- a. Notification by one of the parties that they wish to terminate the Contract; or
- The date a modified or new Contract commences.

This Contract may be terminated by either party upon thirty (30) days written notice to the other. In the event of a termination, Temagami shall pay for all reasonable charges for work performed and demobilization by SEI to the date of Notice of Termination. The limitation of liability and indemnity obligations of this Contract shall survive and be binding notwithstanding any termination of this Contract.

All notices under this Contract shall be delivered in writing (facsimile, email, regular mail, hand delivery or express courier; with postage fully prepaid if sent by mail or express courier) to the party's contact persons. Contact information is provided in Appendix B of this Contract. The contact persons' name and address can be changed at any time through written notice to the other party.

SEI may suspend performance of services under this Contract if:

- 1. Temagami fails to make payment in accordance with the terms hereof;
- 2. Temagami becomes insolvent, enters bankruptcy, receivership, or other like proceeding (voluntary or involuntary) or makes an assignment for the benefit of creditors; or
- 3. SEI reasonably believes that Temagami will be unable to pay SEI in accordance with the terms herein and notifies Temagami in writing prior to such suspension of services.

If any such suspension, following resolution of the suspension, causes an increase in the time required for SEI's performance, the performance schedule and/or period for performance shall be extended for a period of time equal to the suspension period.

5. Amendment and Modifications to this Agreement

SEI and Temagami recognize that changes to the original approved project budgets and scope of work may be necessary as the project progresses. Change orders will be communicated by SEI to Temagami, in a timely manner and before any work proceeds, via email. Temagami has a duty to promptly consider the change order request and advise SEI in a timely manner in writing (email acceptable) on how to proceed. If an agreement cannot be reached with respect to the change order, then SEI has the right to terminate the Contract upon written notice to Temagami.

6. Assignment, Delegation and Subcontracting

Neither party shall assign its interest, rights or obligations in this Contract without the prior written consent of the other.

Temagami recognizes and agrees that SEI can retain subcontracting firms to fulfil its work obligations. Subcontracting shall not be considered an assignment of rights or obligations, but is a means of fulfilling the rights and obligations of the contracting party though a subcontractor. Temagami shall be consulted and agree on the subcontracting firms to be selected. SEI will be responsible for the work done by all of its subcontractors, collectively to the maximum extent stated in Limitation of Liability. Temagami agrees that it will only assert claims against and seek to recover losses, damages or other liabilities from SEI.

7. Standard of Care

In the performance of professional services, SEI will use the level of care and skill ordinarily exercised by reputable members of SEI's profession currently practicing in the same locality under similar conditions.

8. Quality and Replacement of Key Personnel

SEI shall quickly notify Temagami of any change in key planned personnel for the on-going work.

9. Data and Information

Temagami shall make available to SEI all relevant information and documents under its control regarding past, present and proposed conditions of the site, including but not limited to plot plans, topographic studies, hydrologic data and previous soil and geologic data including borings, field or laboratory tests and written reports and shall immediately transmit to SEI any new information that becomes available or any changes in plans. Temagami shall also provide SEI with the location of all known underground utilities and structures on the subject property (if required).

10. Permits

Unless otherwise agreed in writing, SEI shall apply for and obtain all required work permits and licenses.

11. Utilities and Access

Temagami shall make all necessary arrangements for right of entry to provide SEI (and their subcontractors) access to the sites for all equipment and personnel at no charge to SEI. While SEI will take all reasonable precautions to minimize any damage to the property, Temagami agrees to hold SEI harmless for any damages to any subterranean structures or any damage required for right of entry that have been previously communicated and agreed to by Temagami unless caused by the sole negligence or wilful misconduct of SEI.

12. Disposal of Samples, Materials and Contaminated Equipment

All samples obtained pursuant to this Contract remain the property and responsibility of Temagami. Uncontaminated soil and rock samples or other specimens may be disposed of thirty (30) days after submission of the directly related work product, due pursuant to the proposal, or shall be returned to Temagami upon request. Thirty (30) days after submission of the directly related work product, all contaminated samples, materials and equipment (containing or potentially containing hazardous constituents), including, but not limited to, soil cuttings, contaminated purge water, and/or other environmental wastes obtained pursuant to this Contract remain the property and responsibility of Temagami and shall be returned to Temagami for proper disposal or disposed of properly after agreement with Temagami.

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13. Control of Work and Job-Site Safety

SEI is responsible for the activities of its employees and subcontractors. Insofar, as job site safety is concerned, SEI is only responsible for the health and safety of its employees and subcontractors. If Temagami has specific safety requirements, they will be provided to SEI as necessary.

14. Deliverables and Acceptance

All deliverables are to be provided in DRAFT for review and comment, prior to finalization and submission to Temagami. All deliverables and services shall be provided to best industry practices.

15. Delays and Force Majeure

Temagami shall not hold SEI liable for damages or delays in performance caused by acts or omissions of SEI, its subcontractors, regulatory agencies, government officials, civil or labour disputes, acts of God, nature, or terror, disruptions of the internet or telecommunications, that are beyond the reasonable control of SEI. In the event of any such delay, agreed upon completion dates shall be extended as necessary and Temagami shall pay SEI for services (i.e., equipment rescheduling, personnel charges, reassignment adjustments, and other related costs incurred including but not limited to, labour and material escalation, and possible increased overhead costs) performed to the delay commencement date plus reasonable delay charges.

Delays in excess of thirty (30) days, at the option of either party, shall make this Contract subject to termination or to renegotiation.

16. Limitation of Liability

Temagami shall immediately notify SEI in writing of any deficiencies (suspected or otherwise) arising directly or indirectly from SEI's negligence or wilful misconduct. Failure to notify SEI of these deficiencies shall relieve SEI from any further liability for such deficiencies. Temagami agrees that any claim which Temagami has or hereafter may have against SEI and its professional staff regarding the services provided, howsoever arising, whether in contract or in tort, shall be absolutely limited to fifty thousand dollars (\$50 000) or the total fees for the services provided under the Contract, whichever is greater, and under no circumstances shall the claim for liability exceed the limit of the applicable insurance, in place at the time of the signing of this Contract. In any event, the liability of SEI shall not exceed the cost of reinstatement of the work. Any professional staff shall have no professional design responsibility for any part of the work not designed by him or her and, further, SEI and its professional staff shall have no liability for any claim unless initiated within six (6) months from the date of substantial performance of the services provided.

Neither party shall be responsible to the other for lost revenues, lost profits, cost of capital, claims by customers, loss of data or any other special indirect, consequential or punitive damages.

17. Insurance

SEI maintains the following insurance:

- Worker's Compensation Insurance and automobile insurance in compliance with statutory limits.
- Commercial General Liability (Per Claim: \$5 000 000; Aggregate Amount Payable of NIL).
- Professional Liability Insurance (Per Claim: \$2 000 000; Aggregate Amount Payable of \$2 000 000).

Insurance Certificates can be provided to Temagami upon written request. Temagami can be added as an additional named insured, upon request, to the relevant SEI insurance policies.

18. Public Responsibility

SEI will endeavour to promptly alert Temagami to any matter of which SEI becomes aware and believes requires Temagami's immediate attention to help to protect public health and safety, or which SEI believes requires Temagami to notify others, or to otherwise conform to applicable codes, standards, regulations or ordinances.

19. Subsurface Risks

The conditions which SEI interprets, from environmental, geological, geotechnical, geochemical, hydrogeological data, as existing in the subsurface may differ from those that actually exist. Furthermore, Temagami acknowledges that with the passing of time, natural occurrences and direct or indirect human intervention at or near the site may substantially alter interpreted conditions.

Subsurface sampling and investigation can result in damage or injury to underground structures or utilities and unavoidable contamination of certain subsurface areas, such as but not limited to geological formations and groundwater, not known to be previously contaminated. SEI adheres to industry standard procedures and care when conducting all sampling and investigations. However, when the services as part of this Contract include subsurface investigations, Temagami agrees to waive any claim against SEI and agrees to defend, indemnify and hold SEI harmless from any injury, claim, loss or expense which may arise as a result of alleged or actual cross-contamination caused by the subsurface investigation or any damage or injury to underground structure, formation, body, or utility unless caused by the gross negligence or wilful misconduct of SEI or its subcontractors.

20. Discovery and Notification of Hazardous Materials

Prior to commencing the work, Temagami shall make available to SEI all known information and documents that relate to past or existing conditions of the site and surrounding areas, including the identity, location, quantity, nature or characteristics of any hazardous materials or suspected hazardous materials or subterranean utilities. Temagami recognizes that hazardous materials or suspected hazardous materials may be discovered on the project site property or surrounding properties.

21. Field Representation

Unless otherwise expressly agreed in writing, SEI shall not be responsible for the safety or direction of the means and methods of contractors or their employees or agents that are not hired by SEI for the Temagami sites, and the presence of SEI at the Temagami's sites will not relieve the contractor of its responsibilities for performing the work in accordance with applicable regulations, or in accordance with project plans and specifications. If necessary, Temagami will advise any contractors that SEI's services are so limited. SEI will not assume the role of "general contractor", "prime contractor", "principal contractor", "constructor", "controlling employer", or their equivalents unless the scope of such services are expressly agreed in writing.

22. Indemnification

SEI agrees, at all time, to defend, indemnify, protect and hold harmless Temagami and its directors, officers, and employees from and against all claims, liabilities, damages or expenses (including but not limited to reasonable legal fees) arising from delay of the project, personal injury, reduction of property value, fear of or actual exposure to or release of toxic or hazardous substances, and any consequential damages of whatever nature, to any third-party property to the extent that all claims, damages, losses, or expenses are

STORY ENVIRONMENTAL INC. Page 5 of 9

ultimately determined to result from SEI's gross negligence or wilful misconduct. Such indemnification, limited by the Limitation of Liability clauses provided in this Contract, shall be Temagami's sole and exclusive remedy against SEI.

Temagami agrees, at all times, to defend, indemnify, protect and hold harmless SEI and its officers, employees, subcontractors, consultants, agents from any and all claims, liabilities, damages or expenses, including but not limited to delay of the project, personal injury, reduction of property value, fear of or actual exposure to or release of toxic or hazardous substances, and any consequential damages of whatever nature, which may arise directly or indirectly, to any party, as a result of the services provided by SEI under this Contract. To the fullest extent permitted by law, such indemnification shall apply regardless of breach of contract or strict liability of SEI. Such indemnification shall not apply should the injury or loss be determined to be the result of sole negligence by SEI.

23. Invoicing and Payment Terms

Unless otherwise stated and agreed, invoices will be submitted by SEI on a monthly basis. Invoices shall include the following information:

- Total number of hours charged by each employee during the covered period; and
- Travel/disbursement costs incurred including all applicable receipts.

Invoicing will be done according to SEI's fee and disbursement schedule. This fee and disbursement schedule will be updated every year. Yearly fee increases will be incorporated into any budgets provided as part of the Contract. SEI only charges for hours necessarily and actually expended. Disbursements (e.g., mobile phones, conference calls, office supplies, etc.) are charged at a rate of 5% of SEI's monthly fees. In the event a deposit is a requirement of the Contract, services will commence upon receipt.

Unless otherwise stated and agreed, invoices will be submitted by SEI on a monthly basis and will be due and payable on the invoice date. Invoices not paid within thirty (30) days of the invoice date shall be subject to a late fee of one and one-half percent (1.5%) per month (18% per annum) computed at 31 days from the date of the invoice on all past due invoices. In addition, any collection fees, legal fees, court costs, and other related expenses incurred by SEI in the collection of an undisputed delinquent invoice/s, deemed due to SEI, shall be paid by Temagami.

In the event that Temagami disputes all or part of an invoice, Temagami must advise SEI in writing within fifteen (15) days of the invoice date and parties shall promptly resolve any disputed items. Undisputed portions are subject to payment upon receipt.

24. Intellectual Property

In the event that the services provided by SEI under this Contract involve SEI providing Temagami with the right to use or access proprietary software, programs, information management solutions, hosting services, technology, information or data, SEI grants Temagami the non-exclusive, non-transferrable, non-assignable license to use the SEI products for Temagami's internal purposes, solely in connection with the services. Except for this limited license, SEI expressly reserves all other rights in and to the SEI products/materials.

25. Confidentiality and Protection of Data

Information obtained by SEI, during the course of this Contract will be for the exclusive use of SEI and will not be divulged to others without prior written consent from Temagami.

26. Exclusive Use

Services provided under this Contract, including all reports, information or recommendations prepared or issued by SEI, are for the exclusive use of Temagami for the project specified. If the use of this information is for the purposes of developing a public document and interpretation and publication of this information will be required, the form of such reporting will be agreed to by Temagami and SEI.

SEI will not be responsible for any interpretations or recommendations generated or made by others, which are based, whole or in part, on SEI's data, interpretations or recommendations.

27. Disputes

Any dispute arising hereunder shall first be resolved by taking the following steps, where a successive step is taken if the issue is not resolved at the preceding step: 1) by the technical and contractual personnel for each party performing this Contract, 2) by executive management of each party, 3) by mediation, or 4) through the court system of the jurisdiction of the SEI office that is entering into this Contract. Each party hereby waives the right to trial by jury for any disputes arising out of this Contract. Except as otherwise provided herein, each party shall be responsible for its own legal costs and fees.

28. Governing Law

Story Environmental Inc

This Contract is governed by the laws of the province of Ontario.

29. Authorization to Proceed

By signing below, Temagami hereby authorizes SEI to proceed with the Services in accordance to the terms and conditions of this Contract.

The Corneration of the Municipality of Tomonomi

Citory Environmental III.	the outporation of the municipality of remagani
mftor 2	
Maria Story, P. Eng. / President	Patrick Cormier Chief Administrative Officer
16 March 2018	
Date	Date

APPENDIX A - COST ESTIMATE

Cost Estimate - Temagami Landfill Monitoring 2018 (Briggs) Proposal Number 998-300 Project Location Temagami, Ontario

	tem	Personnel	Hours	Rale	Budget	Comments
munitandii G	mundmeter Montonna		***************************************		040367	Contingita
THE PERSON OF	Office - Preparation for Frield	CAD	2	\$85	\$170	I hour per event " two sampling events
····	Olice - Frephagear Stiffes	CAD		7 303	3170	i now per event - two sampling events
	Field Work - Samping (GW)	CAD CAD	7 2	\$85 \$85	\$595 \$170	0.75 hours per well, in cluding gas monitoring purging an sampling, 4 wells in total * two sampling events + 1 extra hour for ground supervision during the October UAV flight 1 for trys trys to see per year
	Administration	BEB	1	\$58	\$56	The trip TYD was a see per year
	Project Management	UES	1	\$165	\$165	
					Subtotal: \$1,156	
		-			6	
nual Abritorin						
	Project Management	MES	. 3	\$165	\$330	
	Data Compilation and Analysis	CAD	12	\$85	\$1,020	1.5 days to do volume calcs and apreadsheets
0.00	Report Writing	CAD	15	585	\$1.275	2 days
	GIS Mapping	HRM	2	\$85	\$170	updated maps of site and MW locations
	Indal Revew	ACS	3	5120	\$360	
	Report Preparation	BEB	1	\$56	356	printing and binding
	Review	MES	3	3165	\$495	partiting and propriet
	1001011	W.C.J		3103		
					Subtotal: \$3,706	
uel Surveying		16			- 4	
	Preparing SFOC brUAV Survey	NAM	4	\$80	\$320	obtaining legal permission to fy in the area
	Field Work - UAV Flight	HAM	- 4	585	\$340	Set-Up GCP's and Flying UAV
	Travel	NRM	1	\$85	\$85	1 hr tnp * one trp
	Processing Imagery and Suney	HRM	2	580	5200	
	GIS Mapping	NAM	4	580	\$360	
	0.3 - 55509	141511		300		
					Subtotal: \$1,305	
bursemen			de yoursive		btotal Fees: \$6,167	
bursemen	3 1em		Quantity	Rate	Budget	
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	tem nent Walers Tubng		150	Rate S0 5	8udget \$67.5	11 required
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	Tem ment Waterra Tubsig Waterra Foot Valve Waterra 0.45 micron liters Water Level Meter (per day)		150 4 8 1	S0 5 \$8 \$25 \$25	\$57.5 \$32 \$200 \$25	if required 4 wells * 2 events 0 5 day * 2 events
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	Tem nent Waters Tubsig Waters Foot Value Waters 0.45 micron liters Water Level Meter (per day) YSI Muki-meter (per day) Combustible Gas Montor (per day) e8ee UAV		150 4 8 1	\$0.5 \$8 \$25 \$25 \$25 \$35 \$35 \$35	8udget \$67.5 \$32 \$200 \$25 \$95 \$85 \$350	If required 4 welts "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "2 events 0.5 day "1 events
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TOTAL BUOGET: \$8,505

APPENDIX B - CONTACT INFORMATION

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