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**From:** Dave Larsen <dlarsen@reiengineering.com>  
**Sent:** Friday, August 18, 2017 10:49 AM  
**To:** Stoltz, Carrie R - DNR  
**Subject:** RE: Thomas Station, Montreal,WI  
**Attachments:** thomas.pdf

Carrie, just a follow up to our phone call earlier today.

Low profile drill rig charge. REI has typically requested, and been approved, a flat fee of \$500 to cover the additional drillers time to install a well under overhead powerlines. The charge covers the time to breakdown the drill rig tower and to also cover the additional time to install the well. With the tower lowered, the driller has lost the use of the winch lines and also needs to breakdown the tooling more often.

The MW location was researched before mobilizing to the site. Both REI and driller reviewed Google Earth Street view images, attached, and determined that the location we identified did not have overhead issues. Unfortunately, when we arrived on site the power lines had been moved from the south side of the road to the north side of the road and our options were very limited. We could have installed the well in the road, but our DOT DT1812 approval was all based on well install >3' behind edge of curb. I personally will do just about anything to prevent having to place a well in a driving lane. When we are performing well sampling duties, we typically have our heads down... Not good when working in the driving lane.

This site was very difficult to drill and just took much longer than a typical site. An explanation of the time required to complete the work is included in the June 20, 2017 e-mail, which is copied below. Please let me know if you need anything else.

**From:** Dave Larsen  
**Sent:** Tuesday, June 20, 2017 8:28 AM  
**To:** Stoltz, Carrie R - DNR ([Carrie.Stoltz@wisconsin.gov](mailto:Carrie.Stoltz@wisconsin.gov)) <[Carrie.Stoltz@wisconsin.gov](mailto:Carrie.Stoltz@wisconsin.gov)>  
**Subject:** Thomas Service

Following up on last week's work.

This project was very difficult and time consuming. We ended up advancing 106.5 feet of GP borings (approval was for 70) and 44' of well installation (approval was for 40') and it took a total of 16 hours REI site time to complete. We did have a few storm delays, but the drilling was very difficult. We had a GP rig and a truck mounted drill rig on site and it still took 2 days to complete.

We did find a bit more c-soil than expected and also encountered something a bit odd along the former SE corner of the building near MW1. Maybe the old fuel oil UST bed or possibly a septic drain field. It was a volatile organic and registered on the PID, but didn't seem like the petro impacts we were finding by the old pump island.

REI had petitioned for and received verbal approval for DOT r-o-w access with a LCS requirement and DOT person (Nick Vos) was pulled from office to respond to washouts from heavy rains and he never did provides me with a signed permit and the permit number was a requirement for the LCS notification. I spoke with him yesterday and he will retroactively generate the permit, but I will not be able to perform the LCS since the work has been completed.

I had asked the driller to get back to me on additional time invested in this SOW above what U&C would cover and have not yet received. Once I do, we can discuss the potential change order at that time.

Lab samples:

We collected a total of 22 soil samples (PVOC, PAH, Lead) and only had approval for 14 of each.

Another concern is that the soil was impacted to refusal. We tried GP, split spoon and auger drilling to advance the borings and met with refusal each time. Lots of cobbles at depth. It does not seem that the vertical extent is defined and a PZ may be required, but we are also next to Montreal River, which may be the local groundwater discharge. Again it may be best to hold off on any decisions until we have lab results.

Thank you,

*David N. Larsen P.G*




*Hydrogeologist / Professional Geologist*



**David N. Larsen, P.G.**  
Hydrogeologist  
Dlarsen@REIengineering.com

Tel: 877-734-7745  
715-675-9784  
Cell: 715-551-3434  
Fax: 715-675-4060



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**From:** Stoltz, Carrie R - DNR [mailto:Carrie.Stoltz@wisconsin.gov]  
**Sent:** Thursday, August 17, 2017 4:31 PM  
**To:** Dave Larsen <dlarsen@reiengineering.com>  
**Subject:** RE: Thomas Station, Montreal,WI

Hi Dave. Tim & I reviewed your request today. We understand the additional drilling, sampling, per diem and variance for the low-profile commodity drill rig. However, the change order will not be approved because this work is part of the original SOW that already had a change order. For the additional consultant time variance; please justify and itemize this time. State exactly why this is needed. This variance cost is concerning because it is more than the commodity drill rig costs. The MW location could have been moved away from the powerlines, which can be clearly seen on Google Earth or could have possibly been placed in the roadway. Traffic control was approved under the original SOW. The hourly rate PECFA would pay for this variance is \$91.00/hr. If you have any questions, let me know. Thanks, Carrie

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Carrie Stoltz

Phone (715)365-8942

[Carrie.Stoltz@Wisconsin.gov](mailto:Carrie.Stoltz@Wisconsin.gov)

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**From:** Dave Larsen [<mailto:dlarsen@reiengineering.com>]  
**Sent:** Wednesday, August 09, 2017 1:50 PM  
**To:** Stoltz, Carrie R - DNR <[Carrie.Stoltz@wisconsin.gov](mailto:Carrie.Stoltz@wisconsin.gov)>  
**Subject:** RE: Thomas Station, Montreal,WI




Sounds good, thanks for letting me know.

Thank you,  
*David N. Larsen P.G*  
*Hydrogeologist / Professional Geologist*



<b>David N. Larsen, P.G.</b> Hydrogeologist <a href="mailto:Dlarsen@REIengineering.com">Dlarsen@REIengineering.com</a>	
Tel: 877-734-7745 715-675-9784	
Cell: 715-551-3434	
Fax: 715-675-4060	



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**From:** Stoltz, Carrie R - DNR [<mailto:Carrie.Stoltz@wisconsin.gov>]  
**Sent:** Wednesday, August 09, 2017 1:26 PM  
**To:** Dave Larsen <[dlarsen@reiengineering.com](mailto:dlarsen@reiengineering.com)>  
**Subject:** RE: Thomas Station, Montreal,WI

Hi Dave, this is on hold until Tim Ziechert gets back from vacation on August 14<sup>th</sup>. John wanted Tim to take a look at this. Thanks for your patience, Carrie

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Carrie Stoltz  
Phone (715)365-8942  
[Carrie.Stoltz@Wisconsin.gov](mailto:Carrie.Stoltz@Wisconsin.gov)

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**From:** Dave Larsen [<mailto:dlarsen@reiengineering.com>]  
**Sent:** Friday, July 14, 2017 3:45 PM  
**To:** Stoltz, Carrie R - DNR <[Carrie.Stoltz@wisconsin.gov](mailto:Carrie.Stoltz@wisconsin.gov)>  
**Subject:** Re: Thomas Station, Montreal,WI

Will this satisfy the requirements for the low clearance charge at thomas service?

Sent from my iPhone

David N. Larsen  
REI Engineering, Inc.  
Hydrogeologist/Professional Geologist

On Jul 14, 2017, at 3:29 PM, Tim Winkler <[tim.winkler@gestrainc.com](mailto:tim.winkler@gestrainc.com)> wrote:

Hi Dave,

I'm requesting that GESTRA Engineering Inc. be paid an additional \$500.00 for the drilling we did at MW-8 at your Thomas Station site in Montreal, WI. GESTRA project number 17179-60. As you know ,we had to run our rig in Low Clearance because of the overhead electric and utility lines. Based on the surrounding underground utilities there wasn't many other options, so the boring had to be located where it is.

The additional fees is used to help offset the labor. We have to break all of our tooling so we maintain a 14 foot clearance from the power lines at all times. I also encourage our crews to take extra time to think every step through when we are put in these situations. It is stressful enough without having to worry about going fast.

As always, We appreciate the opportunity to provide our services to REI Engineering and look forward to working on more projects together.

Thank you,

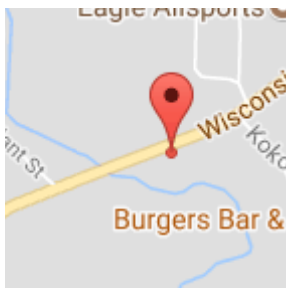
**Timothy R. Winkler**  
**Drilling Department Manager**  
GESTRA Engineering, Inc.  
191 W. Edgerton Avenue | Milwaukee, WI 53207  
P: 414-933-7444 x27 | C: 414-534-2960 | [www.gestrainc.com](http://www.gestrainc.com)

Google Maps 51 Wisconsin Ave



Image capture: Aug 2009 © 2017 Google United States

Montreal, Wisconsin  
Street View - Aug 2009



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**From:** Dave Larsen <dlarsen@reiengineering.com>  
**Sent:** Monday, June 26, 2017 10:04 AM  
**To:** Stoltz, Carrie R - DNR  
**Subject:** RE: Thomas Service  
**Attachments:** 7644 - Drilling Change Order.pdf

Carrie, this should be an itemization of the change order for Thomas Service. It includes the additional GP footage, well install footage, additional lab samples, reduction in off site access requirements, per diems for overnight and variances for commodity and consulting. Commodity variance specific to low profile drill requirement for well placement under overhead power (only option for placement) and variance for consulting time due to difficult drilling conditions. Please feel free to call me to discuss.




Thank you,  
*David N. Larsen P.G.*  
*Hydrogeologist / Professional Geologist*



**David N. Larsen, P.G.**  
**Hydrogeologist**  
Dlarsen@REIengineering.com

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# Usual and Customary Standardized Invoice #21

## January 2017 - June 2017



RR-068A

PECFA #: 54550-9999-00  
 BRRT's #: 03-26-000788  
 Site Name: Thomas Service Station  
 Site Address: 51 Wisconsin Avenue, Gile

Vendor Name: REI Engineering, Inc.  
 Invoice #: \_\_\_\_\_  
 Invoice Date: Proposal Date 6/26/17  
 Check #: \_\_\_\_\_

U&C Total \$ 2,136.58  
 Variance to U&C Total \$ 1,250.00  
 Grand Total \$ 3,386.58

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
12	Direct Push	Consultant	DP05	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 5.36	36.5	\$ 195.64
12	Direct Push	Commodity	DP35	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 6.93	36.5	\$ 252.95
12	Direct Push	Commodity	DP60	Borehole Abandonment	Ft	\$ 1.26	36.5	\$ 45.99
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	\$ 5.40	4	\$ 21.60
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	\$ 16.70	4	\$ 66.80
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$ 3.89	4	\$ 15.56
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$ 16.70	4	\$ 66.80
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)	Person	\$ 203.28	2	\$ 406.56
21	Access Agreements		AA05	Access Agreements	Property	\$ 401.94	-1	\$ (401.94)
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	\$ 113.72	1	\$ 113.72
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule		24	\$ 971.12
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 381.78	1	\$ 381.78
Variance	Low Profile Drill Rig Requirement				Variance	\$ 500.00	1	\$ 500.00
Variance	Additional; Consulting Time				Variance	\$ 750.00	1	\$ 750.00



# Usual and Customary Standardized Invoice #21

## January 2017 - June 2017



RR-068A

TOTAL LAB CHARGES \$ 971.12 TASK 33 24 \$ 971.12 TASK 24 0 \$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	\$ 44.94		\$ -			
AIR	A2	BETX	SAMPLE	\$ 49.46		\$ -			
AIR	A3	GRO	SAMPLE	\$ 46.10		\$ -			
AIR	A4	VOC's	SAMPLE	\$ 71.93		\$ -			
WATER	W1	GRO/PVOC	SAMPLE	\$ 29.19		\$ -			
WATER	W2	PVOC	SAMPLE	\$ 26.99		\$ -			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 43.79		\$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 30.35		\$ -			
WATER	W5	VOC	SAMPLE	\$ 71.93		\$ -			
WATER	W6	PAH	SAMPLE	\$ 72.98		\$ -			
WATER	W7	Lead	SAMPLE	\$ 12.39		\$ -			
WATER	W8	Cadmium	SAMPLE	\$ 13.55		\$ -			
WATER	W9	Hardness	SAMPLE	\$ 12.39		\$ -			
WATER	W10	BOD, Total	SAMPLE	\$ 23.63		\$ -			
WATER	W11	Nitrate	SAMPLE	\$ 11.24		\$ -			
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
WATER	W13	Ammonia	SAMPLE	\$ 16.91		\$ -			
WATER	W14	Sulfate	SAMPLE	\$ 10.19		\$ -			
WATER	W15	Iron	SAMPLE	\$ 10.19		\$ -			
WATER	W16	Manganese	SAMPLE	\$ 10.19		\$ -			
WATER	W17	Alkalinity	SAMPLE	\$ 10.19		\$ -			
WATER	W18	methane	SAMPLE	\$ 46.10		\$ -			
WATER	W19	Phosphorous	SAMPLE	\$ 18.06		\$ -			
WATER	W20	VOC Method 524.2	SAMPLE	\$ 176.30		\$ -			
WATER	W21	EDB Method 504	SAMPLE	\$ 95.45		\$ -			
SOILS	S1	GRO	SAMPLE	\$ 24.78		\$ -	MAX COST	SAMPLES	TOTAL
SOILS	S2	DRO	SAMPLE	\$ 30.35		\$ -	\$ 24.78		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.14		\$ -	\$ 30.35		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 25.83		\$ -	\$ 28.14		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 49.46		\$ -	\$ 25.83		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 36.02	8	\$ 288.16	\$ 49.46		\$ -
SOILS	S7	VOC	SAMPLE	\$ 71.93		\$ -	\$ 36.02		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 50.61		\$ -	\$ 71.93		\$ -
SOILS	S9	PAH	SAMPLE	\$ 72.98	8	\$ 583.84	\$ 50.61		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.39	8	\$ 99.12	\$ 72.98		\$ -
SOILS	S11	Cadmium	SAMPLE	\$ 14.60		\$ -	\$ 12.39		\$ -
SOILS	S12	Free Liquid	SAMPLE	\$ 11.24		\$ -	<b>TASK 24 TOTAL \$ -</b>		
SOILS	S13	Flash Point	SAMPLE	\$ 25.83		\$ -			
SOILS	S14	Grain Size - dry	SAMPLE	\$ 42.74		\$ -			
SOILS	S15	Grain Size - wet	SAMPLE	\$ 57.33		\$ -			
SOILS	S16	Bulk Density	SAMPLE	\$ 13.55		\$ -			

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
SOILS	S17	Permeability	SAMPLE	\$ 41.58		\$ -			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 16.91		\$ -			
SOILS	S20	% Organic Matter	SAMPLE	\$ 29.19		\$ -			
SOILS	S21	TOC as NPOC	SAMPLE	\$ 57.33		\$ -			
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 6.83		\$ -			
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 25.83		\$ -			
SOILS	S24	% Total Solids	SAMPLE	\$ 6.83		\$ -			
SOILS	S25	Field Capacity	SAMPLE	\$ 28.14		\$ -			
SOILS	S26	TCLP Lead	SAMPLE	\$ 83.16		\$ -			
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 26.99		\$ -			
SOILS	S28	TCLP Cadmium	SAMPLE	\$ 83.16		\$ -			
SOILS	S29	TCLP Benzene	SAMPLE	\$ 83.16		\$ -			
		Viscosity + Density							
LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm])	SAMPLE	\$ 561.33		\$ -			
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air [dyne/cm])							
<b>TASK 33 TOTAL</b>						<b>\$ 971.12</b>			

**Variance Request**  
**Thomas Service**  
**Low Profile Drill Rig**  
**Proposal Date 6/26/17**

**Field Time**

	<b>Units</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Event</b>	<b>Events</b>	<b>Total Cost</b>
Low Profile Drilling Requirement (MW8)	Is	1	\$500.00	\$500.00	1	\$500.00
					<b>Subtotal</b>	<b>\$500.00</b>

\\reifnp\projects\7600-7699\7644 - Thomas Service\Proposed Work\7644 - Drilling Change Order.xlsx\Low Profile

**Variance Request**  
**Thomas Service**  
**Consulting Overages**  
**Proposal Date 6/26/17**

<b>Field Time</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Event</b>	<b>Events</b>	<b>Total Cost</b>
Additional Consulting Time due to Difficult Drilling Conditions	Is	1	\$750.00	\$750.00	1	\$750.00
					<b>Subtotal</b>	<b>\$750.00</b>

\\reifnp\projects\7600-7699\7644 - Thomas Service\Proposed Work\7644 - Drilling Change Order.xlsx\Consulting