
From: Dave Larsen <dlarsen@reiengineering.com>
Sent: Monday, June 26, 2017 3:54 PM
To: Stoltz, Carrie R - DNR
Subject: RE: Moose Junction
Attachments: 6510 REI 6-26-17 Change Order.pdf

Moose Junction change order for temp well install. Water sample was collected from temp well for lab analysis. Costs include consulting and commodity charges for temp well install and sample collection and lab analysis.




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



David N. Larsen, P.G.
Hydrogeologist
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From: Dave Larsen
Sent: Tuesday, June 20, 2017 7:56 AM
To: Stoltz, Carrie R - DNR (Carrie.Stoltz@wisconsin.gov) <Carrie.Stoltz@wisconsin.gov>
Subject: Moose Junction

Carrie, just following up on last week's drilling at Moose.

- REI was not able to install the proposed well on private property. I have not been able to reach out to the property owners.
- REI was not able to advance any borings in Moose Road. Town of Dairyland had just graded the road on Monday and all of the diggers hotline markings were gone. This was unfortunate as I had many conversations with the Dairyland Town Chair, and the public works super. We called in an emergency locate, but it would have been days before they could show up due to the recent storms so we moved on to the other projects we had scheduled.
- We advanced a total of 83.5 feet of GP work, 1 well at 15' and also set a temp well and collected a groundwater sample.

REI is still working on getting access to private property and can install the well after access approval via a hand auger and a pre-packed well screen. REI will also see if we can collect soil samples in road way via hand auger, but a GP rig

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REI is still working on getting access to private property and can install the well after access approval via a hand auger and a pre-packed well screen. REI will also see if we can collect soil samples in road way via hand auger, but a GP rig would be preferred. Maybe we can hold off until we receive lab samples and decide from there? I will have to prepare a change order to cover the temp well and water sample collection, but will hold off until after we discuss it further.

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Usual and Customary Standardized Invoice #20

July 2016 - December 2016



RR-061A

PECFA #: 54830-9999-97
 BRRT's #: 03-16-000301
 Site Name: Moose Junction Lounge
 Site Address: 13195 S Hwy 35, Dairyland

Vendor Name: REI
 Invoice #: _____
 Invoice Date: Proposal Date 6-26-17
 Check #: _____

U&C Total \$ 589.90
 Variance to U&C Total \$ -
 Grand Total \$ 589.90

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
12	Direct Push	Consultant	DP20	GW Sample Collection	Each	\$ 36.10	1	\$ 36.10
12	Direct Push	Consultant	DP25	Temporary Well Installation	Each	\$ 49.90	1	\$ 49.90
12	Direct Push	Commodity	DP70	GW Sample Collection	Each	\$ 39.27	1	\$ 39.27
12	Direct Push	Commodity	DP75	Temporary Well Installation	Ft	\$ 5.25	10	\$ 52.50
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule		1	\$ 30.35
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 381.78	1	\$ 381.78

Usual and Customary Standardized Invoice #20

July 2016 - December 2016



RR-061A

TOTAL LAB CHARGES \$ 30.35 TASK 33 1 \$ 30.35 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	1	\$ 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		\$ -			
							MAX COST	SAMPLES	TOTAL
SOILS	S1	GRO	SAMPLE	\$ 24.78		\$ -	\$ 24.78		\$ -
SOILS	S2	DRO	SAMPLE	\$ 30.35		\$ -	\$ 30.35		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.14		\$ -	\$ 28.14		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 25.83		\$ -	\$ 25.83		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 49.46		\$ -	\$ 49.46		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 36.02		\$ -	\$ 36.02		\$ -
SOILS	S7	VOC	SAMPLE	\$ 71.93		\$ -	\$ 71.93		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 50.61		\$ -	\$ 50.61		\$ -
SOILS	S9	PAH	SAMPLE	\$ 72.98		\$ -	\$ 72.98		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.39		\$ -	\$ 12.39		\$ -
SOILS	S11	Cadmium	SAMPLE	\$ 14.60		\$ -			
SOILS	S12	Free Liquid	SAMPLE	\$ 11.24		\$ -			
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		\$ -			
							TASK 24 TOTAL		\$ -

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]							
TASK 33 TOTAL						\$	30.35		

From: Dave Larsen <dlarsen@reiengineering.com>
Sent: Wednesday, June 28, 2017 11:39 AM
To: Stoltz, Carrie R - DNR
Subject: RE: Moose Junction

We had PID detects in the soil samples collected beneath the water table at the sample collected in the SE intersection corner of 35 and M. Wanted to collect a water sample to determine if concentrations were higher in temp well over MW8, installed near potential UST bed for old gas station.

In this case they were and it appears that significant soil impacts remain under 35 and are contributing to the groundwater impact heading SE towards the old gas station. Not sure if the old gas station was a leaker or not?

Thank you,
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From: Stoltz, Carrie R - DNR [mailto:Carrie.Stoltz@wisconsin.gov]
Sent: Wednesday, June 28, 2017 9:25 AM
To: Dave Larsen <dlarsen@reiengineering.com>
Subject: RE: Moose Junction

Hi Dave, maybe you stated this to me in a phone call, but could you state again why and where you installed a temp well? 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




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