From:	Ken Shimko <kshimko.meridianenv@gmail.com></kshimko.meridianenv@gmail.com>
Sent:	Wednesday, May 27, 2020 10:14 AM
То:	Stoltz, Carrie R - DNR
Subject:	RE: Drilling Changes - Autostop - Ladysmith
Attachments:	May 2020 Drilling Changes in field.xlsx
Follow Up Flag:	Follow up
Due By:	Wednesday, May 27, 2020 12:00 PM
Flag Status:	Completed

Carrie.

Here are the changes we made in the field while drilling in Ladysmith last week. We discussed these changes in several phone calls.

7 wells were planned:

3 well nests (12A – 30 ft, 12B – 55 ft)(13A – 30 ft, 13B – 55 ft)(14A – 30 ft, 14B – 55 ft) 1 well (10A - 30 ft)

While drilling we made several changes based on field conditions.

Specifically,

10A – 2 ft deeper due to lower water table
12A – 2 ft deeper due to lower water table
13A – 4 ft deeper due to lower water table (in clay) and higher surface grade. This well was dry next day which caused us to make change in 14 noted below
13B – 1 foot deeper due to higher surface grade
14A – water table not encountered until 42 feet. This fact combined with dry 13A (see above) indicated water table lower in this area. Therefore, we modified 14A into a piezometer (labelled '14') and sampled to depth of 57 feet. This added 27 feet.
14B (piezometer) was moved south and renamed '15'. Well ended up 1 foot deeper than plan (add 1 foot)

Attached is a U&C summary of the field changes.

Please email approval. Call with questions.

Thanks

Kenneth Shimko, PG Meridian Environmental Consulting, LLC 2711 North Elco Road Fall Creek, Wisconsin 54742 (715)832-6608 (office) (715)579-0723 (cell) Email: kshimko.meridianenv@gmail.com

From: Stoltz, Carrie R - DNR <Carrie.Stoltz@wisconsin.gov>
Sent: Thursday, May 21, 2020 7:15 AM
To: Ken Shimko <kshimko.meridianenv@gmail.com>
Subject: RE: Drilling Changes - Autostop - Ladysmith

Thanks Ken, much appreciated! Stay safe and well!

We are committed to service excellence. Visit our survey at <u>http://dnr.wi.gov/customersurvey</u> to evaluate how I did.

Carrie Stoltz Phone (715)365-8942 Carrie.Stoltz@Wisconsin.gov

From: Ken Shimko <<u>kshimko.meridianenv@gmail.com</u>> Sent: Thursday, May 21, 2020 5:46 AM To: Stoltz, Carrie R - DNR <<u>Carrie.Stoltz@wisconsin.gov</u>> Subject: Drilling Changes - Autostop - Ladysmith

Carrie.

This email follows several phone calls this week in which we discussed changes to the drilling plan at the Autostop site in Ladysmith.

Several changes are minor, e.g., the wells are a few feet deeper than budgeted because the depth to water was deeper than estimated.

We did encounter field conditions which altered our drilling plan. The well nest proposed along 8th Ave was modified because we did not encounter water until 42 feet depth. This depth is odd because other water tables have water at about 25 feet depth. Because of the deeper water interval and because of the distance from the site, we did not install the water table well but did install the planned piezometer. We sampled to depth in that boring.

Because we did not install the water table well, you and I discussed installing a piezometer instead in the middle of the 8th st block to complete the definition of extent at depth.

I will send a detailed summary of these field changes and associated costs after we have completed the work.

Thanks for your help.

Kenneth Shimko, PG

Meridian Environmental Consulting, LLC 2711 North Elco Road Fall Creek, Wisconsin 54742 (715)832-6608 (office) (715)579-0723 (cell) Email: <u>kshimko.meridianenv@gmail.com</u>

Usual and Customary Standardized Invoice #27 January 2020 - June 2020



PECFA #: BRRTS #: Site Name: Site Address:	54848-1295-19 : 03-55-282548 Autostop Ladysmith	Ver Inv	ndor Name: Invoice #: voice Date: Check #:	Field Changes to Drilling Footage Field Changes to Drilling Footage May 2020 Field Changes to Drilling Footage	- - -		Variance to	U&C Total o U&C Total Grand Total	\$ \$ \$	1,580.10 - 1,580.10
TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	Μ	IAX UNIT COST	UNITS	T(N	OTAL MAX
Drilling Chang to 42 feet. 14	ges in Field: 10A (+ 2 ft), 12 (+ 27 ft), 15 (+ 1 ft), 10A (+ 2	A (+2 ft), 13/ ? ft)	A (+ 4 ft), 1	3B (+ 1 ft), 14A and 14 B converted into 2 piez	ometers (14	& 15) k	because G	W depth c	lecre	ased
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	\$	5.56		\$	-
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR10	26 - 50 ft bgs	Ft	\$	5.84	28	\$	163.52
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR15	51 - 75 ft bgs	Ft	\$	7.52	7	\$	52.64
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR25	Consultant Oversight	Ft	\$	1.63	-53	\$	(86.39)
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	\$	17.20		\$	-
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR50	26 - 50 ft bgs	Ft	\$	18.93	28	\$	530.04
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR55	51 - 75 ft bgs	Ft	\$	22.18	7	\$	155.26
13.e	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Commodity	DR60	Drilling in Unconsolidated Soils	Ft	\$	12.33	2	\$	24.66
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$	4.01		\$	-
14	Monitoring Well Installation	Consultant	MWI10	26 - 75 ft bgs	Ft	\$	2.81	37	\$	103.97
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$	17.20	37	\$	636.40

Variance

Variance

Usual and Customary Standardized Invoice #27 January 2020- June 2020



		TOTAL LAB CHARGES	\$-	TASK 33	0	\$	-	TA	SK 24	0	\$	-
MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	Т	OTAL	MAX	(COST	SAMPLES	тот	AL
AIR	A1	Benzene	SAMPLE	\$ 46.29		\$	-					
AIR	A2	BETX	SAMPLE	\$ 50.94		\$	-					
AIR	A3	GRO	SAMPLE	\$ 47.48		\$	-					
AIR	A4	VOC's	SAMPLE	\$ 74.09		\$	-					
WATER	W1	GRO/PVOC	SAMPLE	\$ 30.07		\$	-					
WATER	W2	PVOC	SAMPLE	\$ 27.80		\$	-					
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 45.10		\$	-					
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 31.26		\$	-					
WATER	W5	VOC	SAMPLE	\$ 74.09		\$	-					
WATER	W6	PAH	SAMPLE	\$ 75.17		\$	-					
WATER	W7	Lead	SAMPLE	\$ 12.76		\$	-					
WATER	W8	Cadmium	SAMPLE	\$ 13.96		\$	-					
WATER	W9	Hardness	SAMPLE	\$ 12.76		\$	-					
WATER	W10	BOD, Total	SAMPLE	\$ 24.34		\$	-					
WATER	W11	Nitrate	SAMPLE	\$ 11.58		\$	-					
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.88		\$	-					
WATER	W13	Ammonia	SAMPLE	\$ 17.42		\$	-					
WATER	W14	Sulfate	SAMPLE	\$ 10.50		\$	-					
WATER	W15	Iron	SAMPLE	\$ 10.50		\$	-					
WATER	W16	Manganese	SAMPLE	\$ 10.50		\$	-					
WATER	W17	Alkalinity	SAMPLE	\$ 10.50		\$	-					
WATER	W18	methane	SAMPLE	\$ 47.48		\$	-					
WATER	W19	Phosphorous	SAMPLE	\$ 18.60		\$	-					
WATER	W20	VOC Method 524.2	SAMPLE	\$ 181.59		\$	-					
WATER	W21	EDB Method 504	SAMPLE	\$ 98.31		\$	-	MAX	(COST	SAMPLES	TOT	AL
SOILS	S1	GRO	SAMPLE	\$ 25.52		\$	-	\$	25.52		\$	-
SOILS	S2	DRO	SAMPLE	\$ 31.26		\$	-	\$	31.26		\$	-
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.98		\$	-	\$	28.98		\$	-
SOILS	S4	PVOC	SAMPLE	\$ 26.60		\$	-	\$	26.60		\$	-
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 50.94		\$	-	\$	50.94		\$	-
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 37.10		\$	-	\$	37.10		\$	-
SOILS	S7	VOC	SAMPLE	\$ 74.09		\$	-	\$	74.09		\$	-
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 52.13		\$	-	\$	52.13		\$	-
SOILS	S9	РАН	SAMPLE	\$ 75.17		\$	-	\$	75.17		\$	-
SOILS	S10	Lead	SAMPLE	\$ 12.76		\$	-	\$	12.76		\$	-

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS		MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
SOILS	S11	Cadmium	SAMPLE	\$	15.04		\$ -	TA	SK 24 TOTAL	\$-
SOILS	S12	Free Liquid	SAMPLE	\$	11.58		\$-			
SOILS	S13	Flash Point	SAMPLE	\$	26.60		\$-			
SOILS	S14	Grain Size - dry	SAMPLE	\$	44.02		\$-			
SOILS	S15	Grain Size - wet	SAMPLE	\$	59.05		\$-			
SOILS	S16	Bulk Density	SAMPLE	\$	13.96		\$-			
SOILS	S17	Permeability	SAMPLE	\$	42.83		\$-			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$	20.88		\$-			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$	17.42		\$-			
SOILS	S20	% Organic Matter	SAMPLE	\$	30.07		\$-			
SOILS	S21	TOC as NPOC	SAMPLE	\$	59.05		\$-			
SOILS	S22	Soil Moisture Content	SAMPLE	\$	7.03		\$-			
SOILS	S23	Air Filled Porosity	SAMPLE	\$	26.60		\$-			
SOILS	S24	% Total Solids	SAMPLE	\$	7.03		\$-			
SOILS	S25	Field Capacity	SAMPLE	\$	28.98		\$-			
SOILS	S26	TCLP Lead	SAMPLE	\$	85.65		\$-			
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$	27.80		\$-			
SOILS	S28	TCLP Cadmium	SAMPLE	\$	85.65		\$-			
SOILS	S29	TCLP Benzene	SAMPLE	\$	85.65		\$-			
		Viscosity + Density								
		Interfacial tension I (LNAPL/water [dyne/cm])	SAMDLE	¢	570 17		¢			
LNAFL	LFF301	Interfacial tension II (LNAPL/air [dyne/cm])	SAIVIFLE	φ	576.17		φ -			
		Interfacial tension III (water/air) [dyne/cm])						_		
					TAS	SK 33 TOTAL	\$-			

Revised 7/1/2019

Usual and Customary Standardized Invoice #27 January 2020- June 2020



-			MISCON DEPT. OF /	GN MTURAL RESOLACES	allon 1
LA	BOR RATES FOR U & C SCHEDULE	SCHEDU	LE 26	SCHE	RR-0113a-E
		7/2019 to	12/2019	1/202	20 to 6/2020
LABOR CATEGORY	DESCRIPTION	Maxin Reimbursat Labor (Effective	num ble Hourly Rate July 1)	M Reimbu La (Effecti	aximum Irsable Hourly bor Rate ve January 1)
PRINCIPAL	Administrative and/or professional head of organization. Typically has a financial interest in the company. Direct professional staff; serve as technical expert or coordinator of complex sites. This rate has not been used in the computation of maximum reimbursable amounts for tasks defined as part of the usual and customary cost schedule.	\$	138.06	\$	138.06
SENIOR PROFESSIONAL	Senior technical leader. Develops technical and budgetary approach to work orders. Duties include aquifer characterization, review of technical reports and remedial action plans, modeling. Provides project supervision and management. Performs design and investigation work in technically complex situations often requiring innovative applications. Fieldwork is limited to performing or overseeing extremely complex activities. This maximum reimbursable rate has not been used in the computation of reimbursable amounts for tasks defined as part of field activities. This rate should be used for Professional Engineer oversight to meet Wis. Admin. Code ch. NR 712	\$	112.96	\$	112.96
PROJECT MANAGER	Has responsibility for managing entire project, including estimating costs within the project, controlling the project budget and ensuring that PECFA statute and rules are followed. May be involved in the development of approaches to site remediation, data analysis and interpretation, and report review. Coordinates and communicates with agency personnel, consultants and claimant. Not expected to conduct field. This maximum reimbursable rate has not been used in the computation of reimbursable amounts for tasks defined as part of field activities.	\$	112.96	\$	112.96
STAFF PROFESSIONAL	Implements field work for on-site investigation and remediation activities including site characterization, drilling supervision, monitoring well installation and sampling activities. Assists in modeling, hydrogeologic data analysis, and report preparation. Consults with higher level professional staff.	\$	94.13	\$	94.13
	Ability to conduct hydrogeological investigations relating to looking LICT's and				

FIELD PROFESSIONAL	Ability to conduct hydrogeological investigations relating to leaking UST's and must be experienced in overseeing a wide variety of drilling operations, monitor well installations, sample logging and collection and data acquisition and interpretation and have the ability to design, perform and interpret aquifer tests.	\$ 81.58	\$ 81.58
FIELD TECHNICIAN	Performs assigned fieldwork and routine labor tasks. Assists in equipment installation and maintenance, and subcontractor oversight. Assists with well development, sampling and monitoring, static water level measurements and free product removal. Assists with field supervision of subcontractors.	\$ 62.76	\$ 62.76
DRAFTING	Technically familiar with basic engineering principles and construction methodologies. Works independently; work product reviewed by Professional Engineer. Proficient with AutoCAD or other forms of Computer Aided Design Drafting.	\$ 69.03	\$ 69.03
WORD PROCESSOR	Operates computer for word processing and spreadsheet entry. Assists technical and senior personnel with report production, correspondence preparation, and data entry.	\$ 43.93	\$ 43.93
CLERICAL	Performs general office work typing filing and document reproduction	\$ 43.93	\$ 43.93

NOTES:

1) These labor rates include the cost of equipment and supplies used to complete office and field tasks and which are not included on the usual and customary equipment schedule. Separate costs for field and office equipment and supplies that do not appear on the usual and customary equipment schedule are not reimbursable.

2) Reimbursement is based on the maximum rate allowed for a task, not the rate of the individual performing the work. For example, the maximum reimbursement rate for performing monitoring well sampling activities is an amount that cooresponds with a Field Technician rate. However, there is no injunction against an individual with a higher reimbursable rate performing the task. (In other words, any individual that qualifies to perform a given task may perform that task, but reimbursement will be based on the hourly or unit rate for the task, not the pay rate of the individual performing the work.)

3) Owners/operators who are or have personnel qualified to perform any of the tasks defined herein and who use their employees to perform these tasks will only be reimbursed for their cost to perform the task. (i.e., Wis. Admin. Code § NR 747.30(1)(e)(4) applies.)

4) These labor categories - FIELD PROFESSIONAL, STAFF PROFESSIONAL, SENIOR PROFESSIONAL include the following disciplines: Hydrogeologist, Geologist, Scientist and Engineer

revised 1/1/2020