Excellence through experience™

709 Gillette St., Ste #3♦ La Crosse, WI 54603 ♦ 1-800-552-2932 ♦ Fax (608) 781-8893 Email: rona@metcohq.com ♦www.metcohq.com

February 17, 2020

Cindy Koepke
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: North Main Citgo (Former) – Bid Deferment/Variance Request for Free Product Definition. (Revised) BRRTS #: 03-54-176662, PECFA #: 53534-1824-25-A

Dear Ms. Koepke,

At the request of the WDNR, a bid deferment/variance request is being submitted for the subject property located at 25 N. Main Street in Edgerton, Wisconsin. The work scope will include: [1] Conduct a UVOST-HP Survey to efficiently delineate LNAPL petroleum with an estimated 20 borings to ~20 feet below ground surface, [2] conduct weekly free product check/bail for up to 7 weeks, [3] collect one round of groundwater samples from monitoring wells MW-1, -4, and -9 (also check and bail free product) for PVOC and Naphthalene analysis and water levels from the remaining seven monitoring wells, [4] Updated Primary Closure Request, [5] Professional Engineer Review and Certification of the Closure Request, and [6] Well Abandonment (if closure is approved). The cost estimate is as follows:

Soil Boring/MW Permit (2)	$ 507.00
Private Utility Locate	$ 375.00
UVOST-HP Survey (subcontractor)	$13,000.00 (variance)
UVOST-HP Survey (consulting) + 1-overnight	$ 2,948.99 (variance+U&C)
Weekly Free Product Check/Bail (7 events)	$ 4,393.20 (variance)
Investigative Waste Disposal (Free Product)	$ 580.03
Groundwater Monitoring (1 round)	$ 1,036.21
Laboratory Analysis	$ 125.04
Updated Primary Closure Request	$ 2,781.00
PE Review & Certification of Closure Request	$ 1,129.60
Well Abandonment	$ 1,702.36
Change Order Request	$ 393.23
Total	$28,971.66

METCO is requesting a bid deferment/variance in the amount of **$28,971.66** to complete the above work scope. Upon state and client approval of the proposed work scope and budget, METCO will proceed with the project.

Attached is a site layout map with proposed UVOST-HP Survey boring locations, subcontractor costs estimate for the UVOST-HP Survey, and U&C standardized invoice as required.

Please note that we do not plan to conduct any borings along the west side of North Main Street or within the intersection of North Main Street and Canal Street due to the number of utility lines, the risk of working in an intersection with the amount of traffic in this area, and the fact that we would be investigating contamination from the neighboring closed Halverson's 66 LUST site.

Should you have any questions, comments, or recommendations please contact me at our La Crosse office (608) 781-8879 or email at jasonp@metcohq.com.

Sincerely,

Jason T. Powell
Staff Scientist

Attachment

c: Estate of Richard P. Johnson c/o Suzanne Johnson – Client
Ed Francois – Francois Oil Co.

GROUNDWATER
ISOCONCENTRATION (10/17/2019)

NORTH MAIN CITGO

METCO
709 Gillette St, Ste. 3
La Crosse, WI 54603
Tel. (608) 781-8879
Fax. (608) 781-8893
Excellence through experience

EDGERTON,
WISCONSIN

DRAWN BY: ED DATE: 10/01/09
MODIFIED BY: RW DATE: 12/1/2010

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- PROPERTY BOUNDARY
- PRODUCT LINES (REMOVED)
- OVERHEAD LINES
- SANITARY SEWER LINE
- WATER LINE
- NATURAL GAS LINE
- ABANDONED MONITORING WELL HALVERSON'S 66
- GEOPROBE BORING LOCATION
- MONITORING WELL LOCATION
- UST CLOSURE SOIL SAMPLING LOCATION
- SUB SLAB VAPOR SAMPLE LOCATION
- PROPOSED UVOST-HP BORING LOCATION

KEY TO UST CLOSURE SAMPLES

#1 - BUILDING WEST SIDE
#2 - NORTH SIDE WALL
#3 - WEST SIDE WALL
#4 - SOUTH SIDEWALL WEST
#5 - SOUTH SIDEWALL EAST
#6 - BUILDING SOUTH

KEY TO UST SYSTEMS

A - REMOVED 10,000 GAL. UNLEADED GASOLINE UST (REMOVED 2015)
B - REMOVED 10,000 GAL PREMIUM GASOLINE UST (REMOVED 2015)
C - REMOVED 10,000 GAL. DIESEL UST (REMOVED 2015)
D - REMOVED 2,000 GAL. KEROSENE UST (REMOVED 2015)
E - REMOVED 550 GAL. KEROSENE UST (REMOVED 1998)
F - REMOVED 550 GAL. WASTE OIL UST (REMOVED 1998)

- UST CLOSURE EXCAVATION EXTENT (CURRENTLY GRAVEL COVERED)

SCALE:
1 INCH = 30 FEET
0 15 30

NORTH MAIN STREET (USH 51)

CANAL STREET

CHASE BANK
PARKING LOT
11 N. MAIN STREET

RESIDENTIAL
8 E. CANAL STREET

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL.

PAL

ES

BANK OF EDGERTON

LANDSCAPED AREA

SIDEWALK

FIBER OPTIC PACKAGE

GRASS

MW-12
MW-4
MW-7
MW-6
MW-10

HALVERSON'S 66
03-54-099115
CLOSED LUST SITE

PARKING LOT

MW-9
MW-1
MW-5
MW-2
MW-3
MW-8

CANOPY

CONCRETE

NORTH MAIN CITGO
25 N. MAIN STREET

SS-1
SS-2
SS-3

REMOVED VENT PIPES

GRAVEL

RESIDENTIAL
7 E. CANAL STREET

RESIDENTIAL

EASEMENT ON NEIGHBORING PROPERTY

APPROXIMATE LOCATION OF REMOVED GASOLINE UST'S (500, 500, AND 1,000 GALLON) (REMOVED IN 1987)

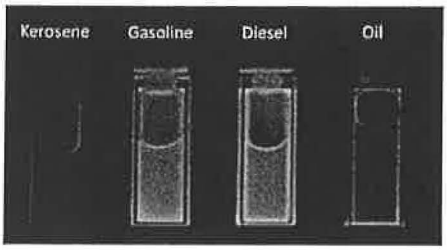
LIQUOR STORE

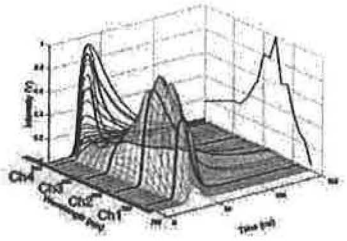
PARKING LOT FOR NEIGHBORING BUSINESS
15 N. MAIN STREET

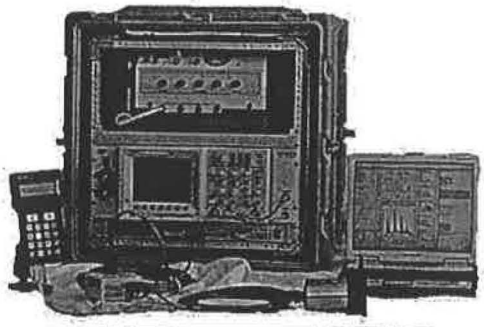
BUMPER TO BUMPER AUTO PARTS STORE
15 N. MAIN STREET

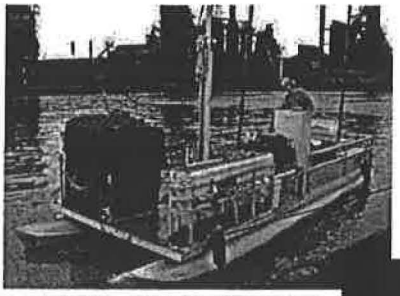
DAKOTA TECHNOLOGIES

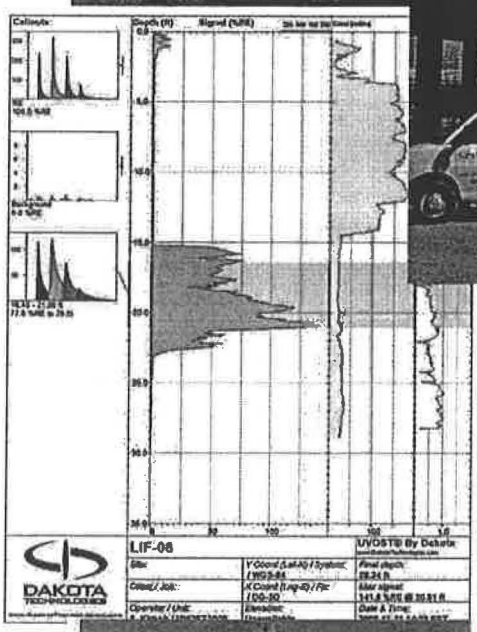
High Resolution Site Characterization Specialists

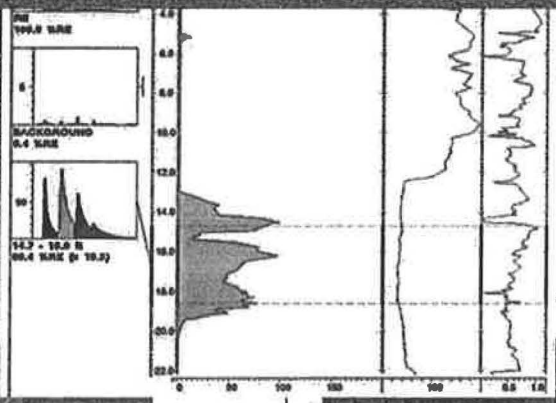


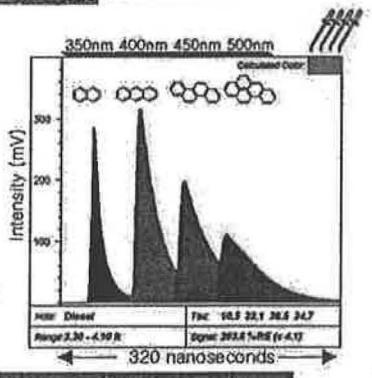


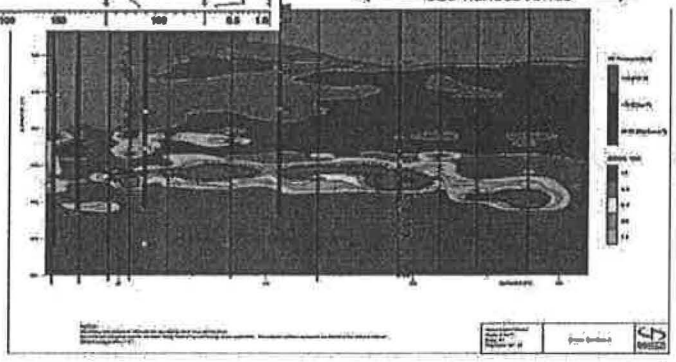












Fargo, ND Minneapolis, MN Kansas City, MO Morris, MN Atlanta, GA
Columbus, OH Boston, MA Charleston, SC Virginia Beach, VA

DAKOTA TECHNOLOGIES

5001 Boone Ave. N
New Hope, MN 55428
(763)-424-4803

Client:	Metco	Date:	2/14/2020
Client Contact:	Jason Powell	Contact Email:	jasonp@metcohq.com
Client Telephone:	816.589.6496		
Project Name:	Former Gas Station	Project Location:	Edgerton, WI
Service Type:	UVOST-HP	Anticipated Field Work Date:	Spring 2020
Dakota Point of Contact:	dthompson@dakotatechnologies.com		

Scope of Work:

* Dakota will coordinate a public utility locate for the work area(s).

*Dakota understands that Metco will be responsible for any ROW work permits.

* Client and/or property owner will be responsible for the location and protection of private utilities in the work area. Dakota recommends the use of a private locator for locating former and current private utilities.

* Advance 20 borings to a depth of 20 feet bgs for the collection of UVOST-HP data (UVOST-HP Description Attached). Actual depths will be based on the real-time results and physical limitations encountered in the subsurface.

* Color logs are printed after each push is completed and uploaded to a secure project website daily.

* At the completion of the field work, a standard report including scaled field logs, log summary table describing boring attributes, copies of the UVOST-HP log reference guide, and if applicable, a discussion section will be uploaded to the project website along with all electronic data logs.

* As an optional service, Dakota can assemble a 2D/3D data visualization for the project with the data gathered during the investigation.

* Dakota will abandon borings according to State guidelines and restore the surface with like material.

* Metco will submit sealing records for borings to the Wisconsin DNR.

* Typical practice with direct sensing tooling is to utlize a rod wiper system that effectively removes soil from the rods. A background (blank) is run prior to the next push as part of the QC, to confirm the probe is contaminant free prior to the next push.

DAKOTA TECHNOLOGIES

5001 Boone Ave. N
New Hope, MN 55428
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Client:	Metco	Date:	2/14/2020
Client Contact:	Jason Powell	Contact Email:	jasonp@metcohq.com
Client Telephone:	816.589.6496		
Project Name:	Former Gas Station	Project Location:	Edgerton, WI
Service Type:	UVOST-HP	Anticipated Field Work Date:	Spring 2020
Dakota Point of Contact:	dthompson@dakotatechnologies.com		

Estimate of Costs

The following cost estimate is based on the scope of work described above

Desciption	Qty	Unit	Unit Rate	Estimated Total
Coordination/Reporting/Uploads	1	Lump Sum	$600.00	$600.00
Mob/Demob (UVOST system/Rig/Operators)	1	Lump Sum	$2,400.00	$2,400.00
UVOST-HP System/Rig/Crew of 2	2	Per Day (9-hr)	$4,500.00	$9,000.00
Optional 3D/4DIM Site Visualization	0	Lump Sum	$3,500.00	$0.00
Per Diem (Meals & Lodging)	4	Per Person/Day	$175.00	$700.00
Traffic Control (Shoulder/Parking Lane)	2	Per Day	$150.00	$300.00
			Total:	$13,000.00

Acceptance and Agreement

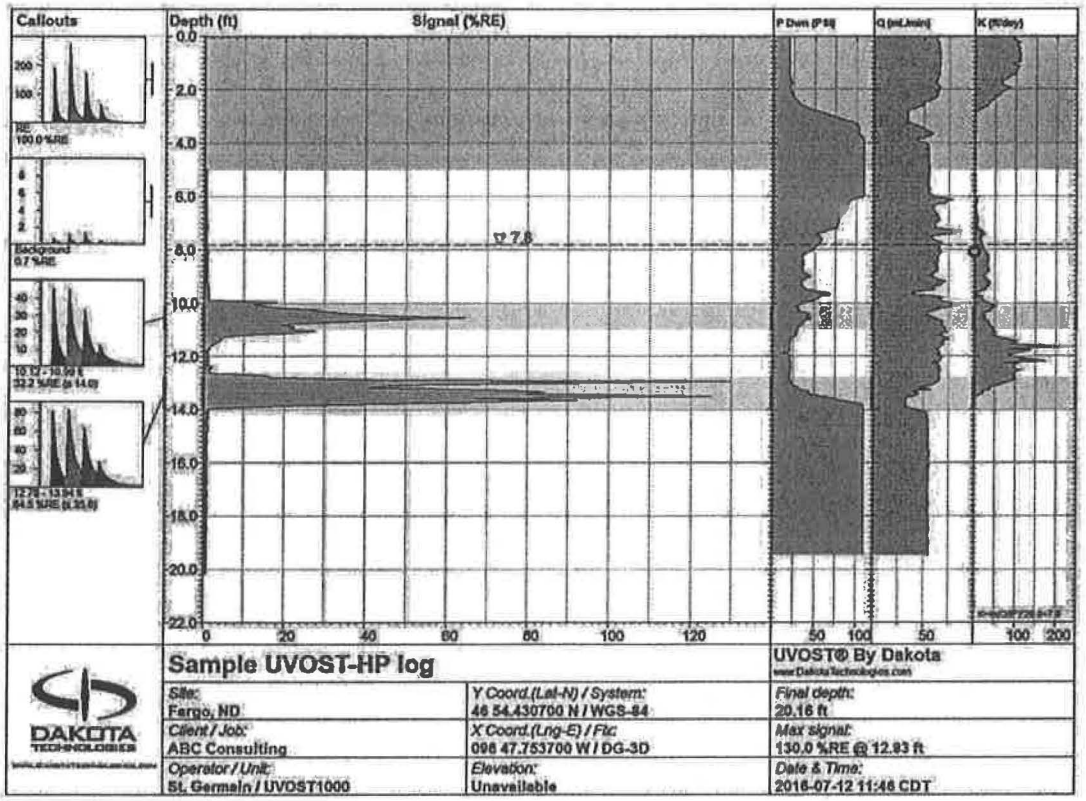
Employee's Signature Dan Thompson Date: 2/14/2020

Dakota Name: Dan Thompson

Position/Title: Operations Manager

UVOST-HP Combination Tool

The new UVOST-HP tool enables the practitioner to efficiently delineate LNAPL petroleum while simultaneously classifying the scales of lithologic variability that control mass storage and transport in the source and distal segments of the LNAPL plume.



The end result of a UVOST-HP boring is a high-density, non-subjective electronic data log. Signal (%RE), hydraulic pressure (psi), Flow, and estimated K are logged with depth.

Dakota Technologies UVOST®-HP Reference Log

Main Plot: Signal (total fluorescence) versus depth where signal is relative to the Reference Emitter (RE). The total area of the waveform is divided by the total area of the Reference Emitter yielding the %RE. This %RE scales with the NAPL fluorescence. The fill color is based on the relative distribution of each channel's area to the total waveform area (see callout waveform). The channel-to-color relationship and corresponding wavelengths are given in the upper right corner of the plot.

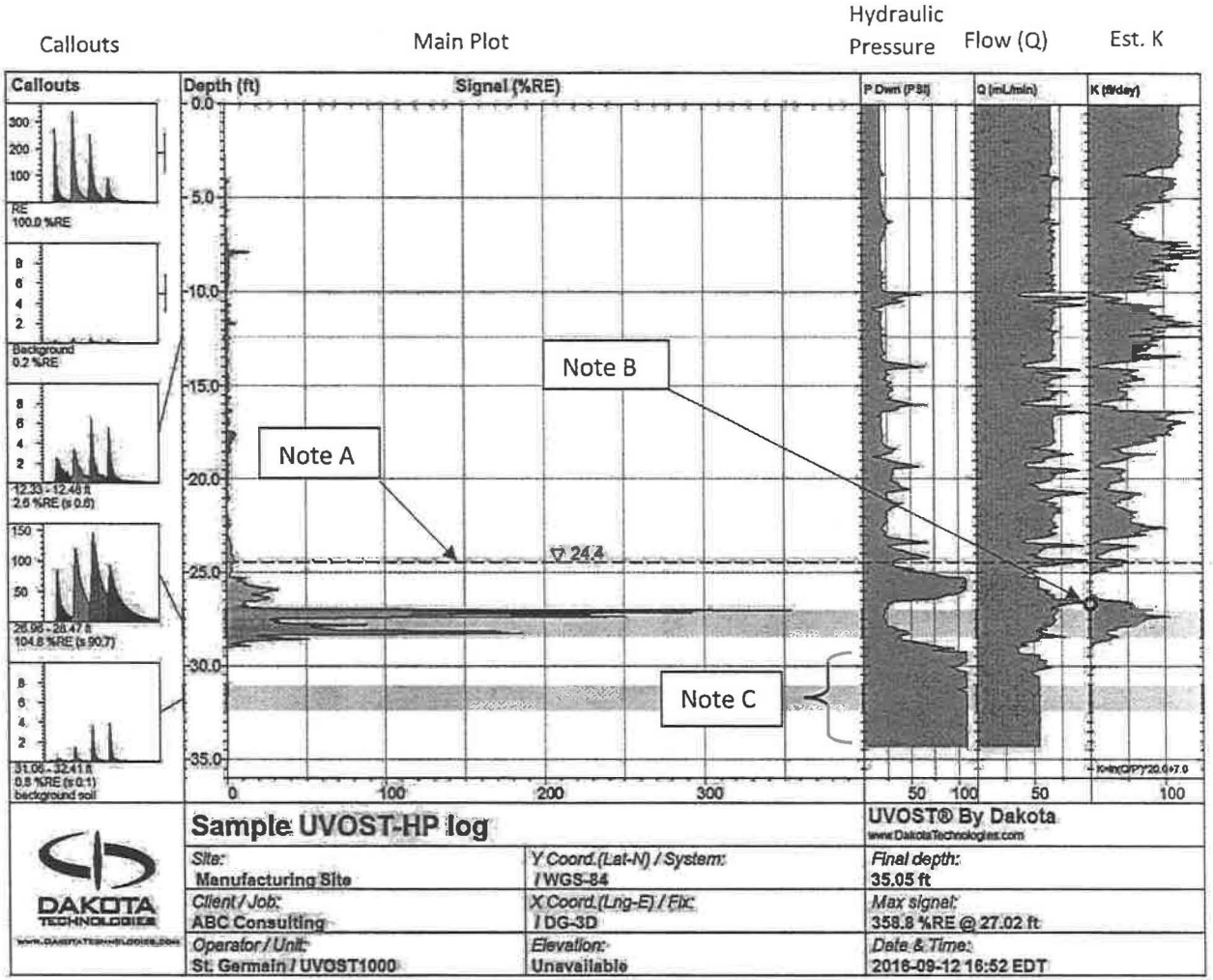
Callouts: Waveforms from selectd depths or depth ranges showing the multi-wavelength waveform for that depth. The four peaks are due to fluorescence at four wavelengths and referred to as "channels". Each channel is assigned a color.

Various NAPLs will have a unique waveform "fingerprint" due to the relative amplitude of the four channels and/or broadening of one or more channels. Basic waveform statistics and any operator notes are given below the callout.

Downhole pressure plot (P Dwn): Downhole hydraulic pressure is measured in response to pumping water into the formation at a constant rate. Measurements are logged simultaneously with UVOST data. The resulting log gives insight into the permeability of the soils.

Flow (Q): Water is pumped out of the port of the UVOST-HP probe at a constant rate of 60 mL/min. A change in flow (usually accompanied by an inverse pressure change) is an indicator of hydraulic properties of the soil.

Estimated K plot: The estimated hydraulic conductivity (K) is internally calculated by utilizing pressure and flow data in conjunction with dissipation test(s) performed at each location. The estimated K is calculated by the equation: K=ln(Q/P')*20.0+7.0.



Note A: The water table has been calculated and plotted at 24.4' bgs.

Note B: The circle on the estimated K plot represents the location(s) of dissipation tests. Here a single dissipation test was performed at 26.67'.

Note C: The increase in pressure starting around 29' (transducer is maxed out, 100 psi) is due to tight formation conditions. In this example, the increase in pressure below the LNAPL represents a less permeable unit and potential confining unit.

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

RR-0113a-E

PECFA #: 53534-1824-25-A
BRRTS #: 03-54-176662
Site Name: North Main Citgo
Site Address: 25 N. Main St., Edgerton, WI

Vendor Name: _____
Invoice #: _____
Invoice Date: _____
Check #: _____

U&C Total $ 8,754.56
Variance to U&C Total $ 20,217.10
Grand Total $ 28,971.66

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
1	GW Sampling		GS05	Sample Collection	Well	$ 74.62	2	$ 149.24
1	GW Sampling		GS06	Sample Collection in well w/LNAPL	Well	$ 90.07	1	$ 90.07
1	GW Sampling		GS20	Measure Water Levels (for wells not being sampled)	Well	$ 15.14	7	$ 105.98
1	GW Sampling		GS25	Primary Mob/Demob	Site	$ 690.92	1	$ 690.92
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	$ 141.24	1	$ 141.24
4	Waste Disposal	Commodity	WD20	Free Product	Drum	$ 122.32	1	$ 122.32
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	$ 316.47	1	$ 316.47
5	Closure Request		CR05	Primary Closure Request	Submittal	$ 2,781.00	1	$ 2,781.00
5	Closure Request		CR30	PE review and certification of closure packet	Site	$ 1,129.60	1	$ 1,129.60
8	Well Abandonment	Consultant	WAB05	Coordination	Site	$ 162.86	1	$ 162.86
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	$ 2.60	234	$ 608.40
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	$ 11.14	8	$ 89.12
8	Well Abandonment	Consultant	WAB25	Portland Cement (94lb bag)	Bag	$ 8.44	4	$ 33.76
8	Well Abandonment	Consultant	WAB31	Primary Mob/Demob w/ vapor point abandonment	Site	$ 563.48	1	$ 563.48
8	Well Abandonment	Consultant	WAB32	Vapor Point Abandonment	Point	$ 81.58	3	$ 244.74
15	Misc. Drilling Activities & Supplies		MDT41	Private Utility Locate	ACTUAL COST			$ 375.00
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	$ 253.50	2	$ 507.00
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	$ 125.09	1	$ 125.09
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			$ 125.04
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	$ 393.23	1	$ 393.23
Variance	UVOST-HP Survey including approximately 20 borings to ~20 feet bgs (subcontractor)							$ 13,000.00
Variance	UVOST-HP Survey including approximately 20 borings to ~20 feet bgs (consulting: Proj. Mgmt., prep, & fieldwork) 30 hours @ $94.13/hour							$ 2,823.90
Variance	Weekly Free Product Check/Bail: 10 hours @$62.76/hour per event for seven events							$ 4,393.20

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

RR-0113a-E

TOTAL LAB CHARGES	$ 125.04	TASK 33	4	$ 125.04	TASK 24	0	$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL
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	4	$ 125.04
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		$ -
SOILS	S1	GRO	SAMPLE	$ 25.52		$ -
SOILS	S2	DRO	SAMPLE	$ 31.26		$ -
SOILS	S3	GRO/PVOC	SAMPLE	$ 28.98		$ -
SOILS	S4	PVOC	SAMPLE	$ 26.60		$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	$ 50.94		$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	$ 37.10		$ -
SOILS	S7	VOC	SAMPLE	$ 74.09		$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	$ 52.13		$ -
SOILS	S9	PAH	SAMPLE	$ 75.17		$ -
SOILS	S10	Lead	SAMPLE	$ 12.76		$ -
SOILS	S11	Cadmium	SAMPLE	$ 15.04		$ -
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		$ -
LNAPL	LFPS01	Viscosity + Density Interfacial tension I (LNAPL/water [dyne/cm]) Interfacial tension II (LNAPL/air [dyne/cm]) Interfacial tension III (water/air) [dyne/cm])	SAMPLE	$ 578.17		$ -
					TASK 33 TOTAL	$ 125.04

MAX COST	SAMPLES	TOTAL
$ 25.52		$ -
$ 31.26		$ -
$ 28.98		$ -
$ 26.60		$ -
$ 50.94		$ -
$ 37.10		$ -
$ 74.09		$ -
$ 52.13		$ -
$ 75.17		$ -
$ 12.76		$ -
	TASK 24 TOTAL	$ -