Meridian Environmental Consulting, LLC

January 31, 2018

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Ave
Rhinelander, WI 54501-3349

Subject: **Change Order:**
- **Quarterly Ground Water Sampling**
- **Hydraulic Conductivity Tests**
- **Letter Report**

Bob's Auto (former)(currently owned by CWI)
Tony, Wisconsin 54563
DNR BRRTS No. 03-55-000774
PECFA No. 54563-9667-08
Meridian No. 05F660

Dear Carrie:

Per your discussions with Senior DNR Staff, enclosed is Change Order for the following tasks:

- Ground Water Monitoring

We will sample the monitoring well network and two private wells (Tony Depot, Tony Lumber) quarterly four times (March, June, September, December). The samples will be analyzed for PVOC+Naphthalene.

- Hydraulic Conductivity Tests

We will conduct hydraulic conductivity tests ("slug tests") in selected wells across the site: MW-1, MW-8, MW-13A, MW-13B, and MW-14. The results will be used to estimate ground water flow velocity and contaminant travel times.

- Letter Report

A report will be prepared which summarizes the results of the ground water sampling and the hydraulic conductivity testing. We will include our evaluation of the ground water flow velocity and potential travel time to the private wells.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG
Project Manager

2711 N. Elco Road • Fall Creek, WI 54742 • (715) 832-6608 • Fax (715) 832-6797

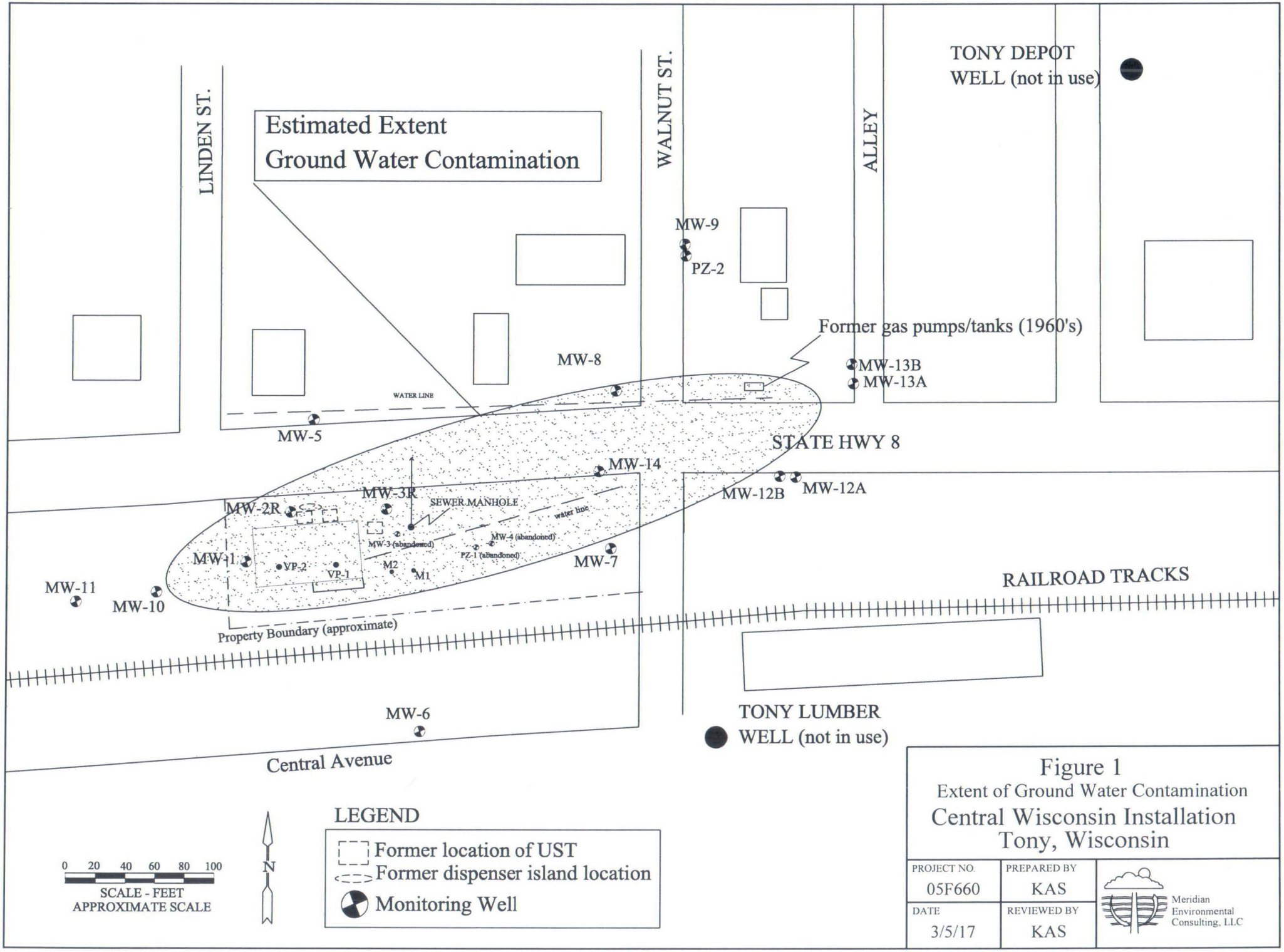

Figure 1
Extent of Ground Water Contamination
Central Wisconsin Installation
Tony, Wisconsin

PROJECT NO.	PREPARED BY
05F660	KAS
DATE	REVIEWED BY
3/5/17	KAS

Meridian Environmental Consulting, LLC

Usual and Customary Standardized Invoice #22
July 2017 - December 2017

WISCONSIN DEPT. OF NATURAL RESOURCES

RR-083A

PECFA #: 54563-9667-08
BRRT's #: 03-55-000774
Site Name: Bob's Auto
Site Address: Tony

Vendor Name: Change Order
Invoice #: Change Order
Invoice Date: January 31, 2018
Check #: Change Order

U&C Total	$	13,737.22
Variance to U&C Total	$	-
Grand Total	$	13,737.22

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT		MAX UNIT COST	UNITS		TOTAL MAX
Sample MW network (MW-1, -2R, -3R, -5, -6, -7, -8, -9, -10, -11, -12A, -12B, -13A, -13B, -14, P-2) & 2 PWs (Tony Depot, Tony Lumber)(Total = 18/event x four qtrs = 72). PVOC+Naph. Dispose purge water (1 drum per event). Letter Report with evaluation of Ground Water Flow velocity and travel time estimates (especially with respect to PWs).										
1	GW Sampling		GS05	Sample Collection	Well	$	72.45	72	$	5,216.40
1	GW Sampling		GS25	Primary Mob/Demob	Site	$	628.11	4	$	2,512.44
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	$	137.13	1	$	137.13
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	$	42.11	4	$	168.44
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	$	287.70	4	$	1,150.80
6	Letter Report/Addendum		LRA05	Letter Report/Addendum	Letter	$	1,039.29	1	$	1,039.29
Conduct Hydraulic Conductivity Tests (slug tests) in MW-1, MW-8, MW-13A, MW-13B, MW-14. Data will be used to estimate GW Flow Velocity/travel times especially with respect to PWs										
19	Hydraulic Conductivity Testing		HCT05	Hydraulic Conductivity Testing	Well	$	58.59	5	$	292.95
19	Hydraulic Conductivity Testing		HCT10	Primary Mob/Demob	Site	$	652.79	1	$	652.79
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			72	$	2,185.20
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	$	381.78	1	$	381.78
Variance										
Variance										

Usual and Customary Standardized Invoice #22
July 2017 - December 2017

RR-083A

TOTAL LAB CHARGES	######	TASK 33	72	######	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	72	$ 2,185.20			
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		$ -		TASK 24 TOTAL	$ -
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		$ -			
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		$ -			
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	$ 561.33		$ -			
						TASK 33 TOTAL	$ 2,185.20		