



May 21, 2020

Mr. Joseph Martinez  
Hydrogeologist  
Wisconsin Department of Natural Resources  
2300 N. Dr. Martin Luther King Jr. Drive  
Milwaukee, WI 53212

RE: Work Plan and Cost Estimate for Additional Sampling and Documentation for Site Closure at the Former Saukville Fabricare Property Located at 144 S. Foster Street in Saukville, Wisconsin - FEC Project No. 041101; BRRTS No. 02-46-448965; FID No. 246061640

Dear Mr. Martinez:

As requested, ***Friess Environmental Consulting, Inc. (FEC)*** provides this cost estimate to the Wisconsin Department of Natural Resources (DNR) for the additional groundwater monitoring, indoor air sampling, site investigation documentation, and closure request for the above referenced property (the "Site"). That scope of work intends to address the items outlined in your letter dated December 9, 2019. This letter describes the proposed services requested by the DNR and the costs for the proposed services are itemized on the attached spreadsheet. We request that you review this submittal for approval through the Dry Cleaner Environmental Response Program (DERP).

### **Groundwater Evaluation**

As you are aware, groundwater monitoring has been conducted on this site since 2004. The results of the sampling at MW-10 indicates that the downgradient extent of the groundwater plume may be expanding. The additional sampling will be conducted to obtain data that supports plume stability and subsequent closure with registry on the DNR groundwater GIS.

Based on our discussions, we are proposing an additional round of groundwater sampling be collected from two select groundwater monitoring wells (MW-9 and MW-10) to confirm the downgradient groundwater plume stability. The samples will be submitted to the laboratory under standard chain-of-custody protocol for analyses of CVOCs. If necessary, an additional well will be installed downgradient to evaluate if impacts have migrated to the property border.

### **Vapor Evaluation**

As you are aware, a vapor mitigation system has been installed at the site. Indoor air samples collected in 2009 indicated concentrations that exceeded the vapor action levels. FEC will collect indoor air samples at all the previous air sampling

locations (IA-1 to IA-9) to confirm the current indoor air quality is below the VALs and that the VMS is not reintroducing contamination from its exhaust. In addition, a background air sample will be collected. The indoor air and background air samples will be collected with a summa canister with 24-hour regulators. The air samples will subsequently be submitted under standard chain-of-custody protocol to a Wisconsin-certified laboratory for analyses of CVOCs, via the TO-15 analytical method.

**Documentation**

The laboratory results from the groundwater and vapor sampling will be reviewed and submitted to the DNR as an updated/supplemental site investigation report to document the results of the additional sampling, evaluate the stability of the groundwater plume, and reference/justify that closure criteria per NR 726.05 have been met. The report will include recommendations for additional actions or site closure.

If closure is deemed appropriate, FEC will prepare a closure report to include updated figures and data tables, documentation for placement of the Site on the DNR's soil and groundwater GIS registries, and vapor mitigation system and cap maintenance plans (as warranted). If closure is granted the groundwater monitoring wells will be abandoned in accordance with applicable regulations.

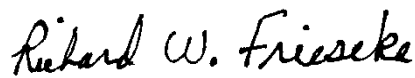
We appreciate your assistance with this project. If you have any questions or comments regarding this submittal, please call me at (414) 228-9815.

Respectfully,

***Friess Environmental Consulting, Inc.***



Trenton J. Ott  
Project Manager



Richard W. Frieseke, P.E.  
President

attachment

041101Budget 3-20 rev

Cc: Mr. Richard Bertrand  
Mr. Peter Kowalchuk

Saukville Fabricare  
 144 S. Foster Street  
 Saukville, WI 53080  
 BRRTS No. 02-46-448965

Claimed Consulting Total = \$0.00  
 Claimed Commodity Total = \$0.00

<b>Claimed Grand Total = \$0.00</b>
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**Consulting**

Item Description	Unit Price	Proposed Quantity	Requested Additional	Units	Approved	Requested Additional	Revised Budget
<b>Item 1: Cost Estimate and Work Plan Preparation</b>							
Documentation	85	16		hour	\$1,360.00	\$0.00	\$1,360.00
PE/Hydro Review	100	4		hour	\$400.00	\$0.00	\$400.00
				<b>Sub-Total =</b>	<b>\$1,760.00</b>	<b>\$0.00</b>	<b>\$1,760.00</b>
<b>Item 2: Groundwater Sampling (2 wells - 1 round)</b>							
Project Coordination	100	5		hour	\$500.00	\$0.00	\$500.00
Field Services	60	6		hour	\$360.00	\$0.00	\$360.00
Field Services Management	85	6		hour	\$510.00	\$0.00	\$510.00
Groundwater disposal coordination	85	3		hour	\$255.00	\$0.00	\$255.00
Data Evaluation/Conversion	85	6		hour	\$510.00	\$0.00	\$510.00
Expenses/Equipment (see below)	70	1		list	\$70.00	\$0.00	\$70.00
				<b>Sub-Total =</b>	<b>\$2,205.00</b>	<b>\$0.00</b>	<b>\$2,205.00</b>
<b>Item 3: Vapor Sampling (10 Indoor Air)</b>							
Project Coordination	100	5		hour	\$500.00	\$0.00	\$500.00
Field Services	60	8		hour	\$480.00	\$0.00	\$480.00
Field Services Management	85	8		hour	\$680.00	\$0.00	\$680.00
Data Evaluation/Conversion	85	8		hour	\$680.00	\$0.00	\$680.00
				<b>Sub-Total =</b>	<b>\$2,340.00</b>	<b>\$0.00</b>	<b>\$2,340.00</b>
<b>Item 4: Additional SI</b>							
Drafting	60	9		hour	\$540.00	\$0.00	\$540.00
PE/Hydro Review	100	8		hour	\$800.00	\$0.00	\$800.00
Documentation	85	20		hour	\$1,700.00	\$0.00	\$1,700.00
				<b>Sub-Total =</b>	<b>\$3,040.00</b>	<b>\$0.00</b>	<b>\$3,040.00</b>
<b>Item 5: Remedial Action Options</b>							
Drafting	60	5		hour	\$300.00	\$0.00	\$300.00
PE/Hydro Review	100	4		hour	\$400.00	\$0.00	\$400.00
Documentation	85	10		hour	\$850.00	\$0.00	\$850.00
				<b>Sub-Total =</b>	<b>\$1,550.00</b>	<b>\$0.00</b>	<b>\$1,550.00</b>
<b>Item 6: Closure/GIS/ Cap Maintenance Plan</b>							
Drafting	60	13		hour	\$780.00	\$0.00	\$780.00
PE/Hydro Review	100	8		hour	\$800.00	\$0.00	\$800.00
Documentation	85	20		hour	\$1,700.00	\$0.00	\$1,700.00
				<b>Sub-Total =</b>	<b>\$3,280.00</b>	<b>\$0.00</b>	<b>\$3,280.00</b>
				<b>Consulting Services Total =</b>	<b>\$14,175.00</b>	<b>\$0.00</b>	<b>\$14,175.00</b>

**Commodity**

Item Description	Unit Price	Proposed Quantity	Requested Additional	Units	Approved	Requested Additional	Revised Budget
<b>Item 2: Groundwater Sampling (5 wells - 1 round)</b>							
Analytical Laboratory							
Analytical Testing (VOCs)	75	2		lump	\$150.00	\$0.00	\$150.00
Water Disposal	325	1		lump	\$325.00	\$0.00	\$325.00
				<b>Sub-Total =</b>	<b>\$475.00</b>	<b>\$0.00</b>	<b>\$475.00</b>
<b>Item 3: Indoor Air Vapor Sampling (5 indoor 1 outdoor)</b>							
Analytical Testing	250	10		lump	\$2,500.00	\$0.00	\$2,500.00
				<b>Sub-Total =</b>	<b>\$2,500.00</b>	<b>\$0.00</b>	<b>\$2,500.00</b>
				<b>Commodity Services Total =</b>	<b>2,975.00</b>	<b>0.00</b>	<b>2,975.00</b>

**Groundwater Sampling Expenses**

well sampling equip.	\$20/well	2 wells	\$40
water level meter	\$30/day	1 day	\$30
			\$70

**Consulting Contingency**

Item Description	Unit Price	Proposed Quantity	Requested Additional	Units	Approved	Requested Additional	Revised Budget
<b>Item 1: Additional Drilling/Well Install (1 well)</b>							
Project Coordination	100	6		hour	\$600.00	\$0.00	\$600.00
Field Services	60	8		hour	\$480.00	\$0.00	\$480.00
Expenses/Equipment	30	1		list	\$30.00	\$0.00	\$30.00
<b>Sub-Total =</b>					<b>\$1,110.00</b>	<b>\$0.00</b>	<b>\$1,110.00</b>
<b>Item 2: Groundwater Sampling (1 wells - 1 round)</b>							
Project Coordination	100	3		hour	\$300.00	\$0.00	\$300.00
Field Services	60	4		hour	\$240.00	\$0.00	\$240.00
Field Services Management	85	4		hour	\$340.00	\$0.00	\$340.00
Groundwater disposal coordination	85	2		hour	\$170.00	\$0.00	\$170.00
Data Evaluation/Conversion	85	4		hour	\$340.00	\$0.00	\$340.00
Expenses/Equipment (see below)	50	1		list	\$50.00	\$0.00	\$50.00
<b>Sub-Total =</b>					<b>\$1,440.00</b>	<b>\$0.00</b>	<b>\$1,440.00</b>
<b>Item 3: Well Abandonment (two 2-inch)</b>							
Field Services	60	8		hour	\$480.00	\$0.00	\$480.00
Documentation	85	8		hour	\$680.00	\$0.00	\$680.00
Expenses/Equipment (see below)	25	1		list	\$25.00	\$0.00	\$25.00
<b>Sub-Total =</b>					<b>\$1,185.00</b>	<b>\$0.00</b>	<b>\$1,185.00</b>
<b>Consulting Services Total =</b>					<b>\$3,735.00</b>	<b>\$0</b>	<b>\$3,735.00</b>

**Commodity Contingency**

Item Description	Unit Price	Proposed Quantity	Requested Additional	Units	Approved	Requested Additional	Revised Budget
<b>Item 1: Additional Drilling/Well Install (1 well)</b>							
Drilling Contractor							
mobilization	\$575	1		lump	\$575.00	\$0.00	\$575.00
drilling	\$15	15		foot	\$225.00	\$0.00	\$225.00
well install	\$15	15		foot	\$225.00	\$0.00	\$225.00
well covers	\$150	1		each	\$150.00	\$0.00	\$150.00
decon	\$150	1		hour	\$150.00	\$0.00	\$150.00
drums	\$55	1		each	\$55.00	\$0.00	\$55.00
Well Cap Maintenance	\$60	11		each	\$660.00	\$0.00	\$660.00
Soil Disposal (1 drum)	\$325	2		lump	\$650.00	\$0.00	\$650.00
<b>Sub-Total =</b>					<b>\$2,690.00</b>	<b>\$0.00</b>	<b>\$2,690.00</b>
<b>Item 2: Groundwater Sampling (1 well - 1 round)</b>							
Analytical Laboratory							
Analytical Testing (VOCs)	75	1		lump	\$75.00	\$0.00	\$75.00
<b>Sub-Total =</b>					<b>\$75.00</b>	<b>\$0.00</b>	<b>\$75.00</b>
<b>Commodity Services Total =</b>					<b>\$2,765</b>	<b>\$0</b>	<b>\$2,765</b>

**Groundwater Sampling Expenses**

well sampling equip.	\$20/well	1 wells	\$20
water level meter	\$30/day	1 day	\$30
			\$50

**Additional Well Abandonment Expenses**

bentonite	\$15/bag	1 bag	\$15
concrete	\$10/bag	1 bag	\$10
			\$25

**Drilling/Well Install Expenses**

sampling equip	\$30
	\$30

Site Name: Former Saukville Fabricare

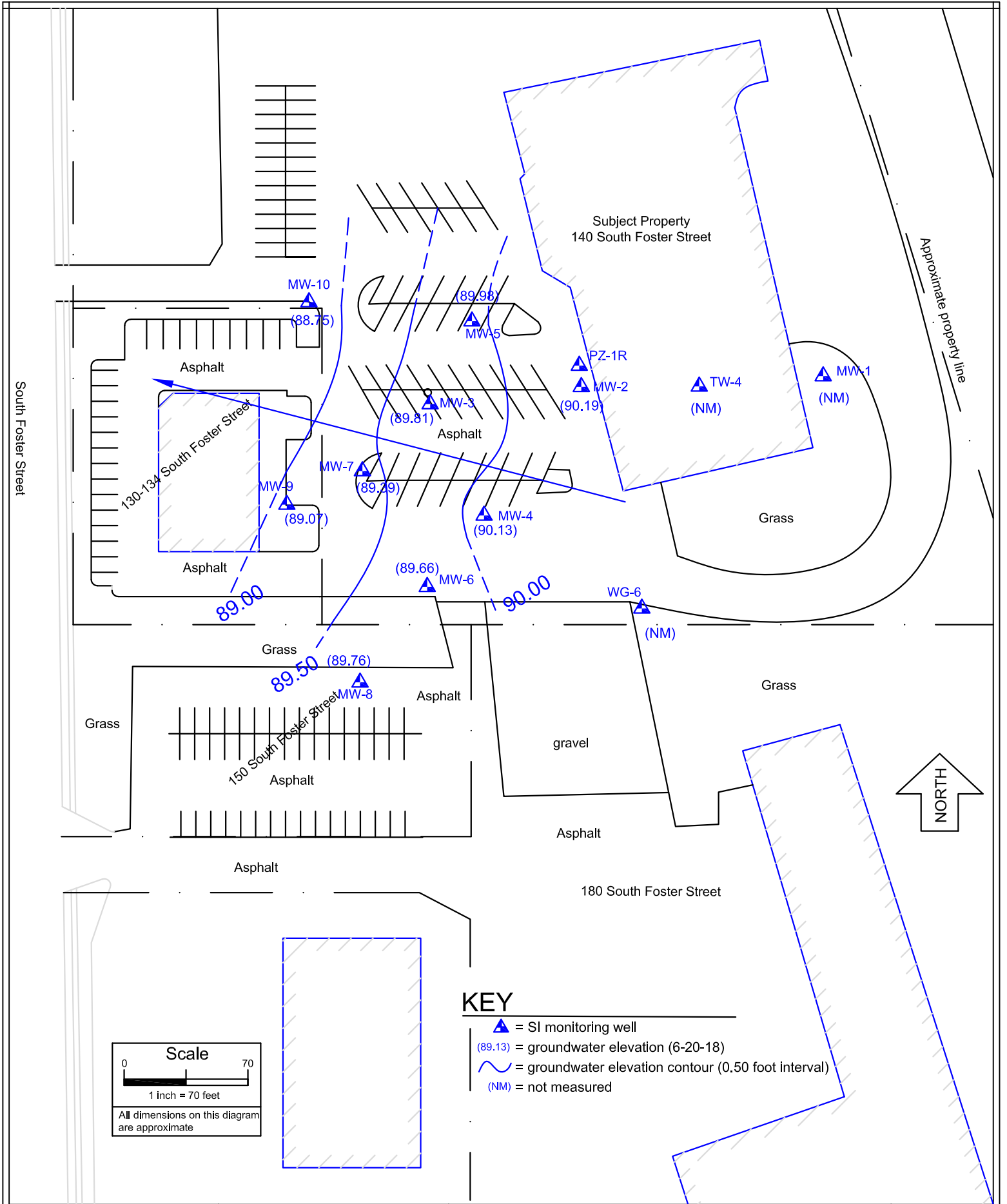
BRRTS #: 02-46-448965

Type of Action: Investigation

TASKS	BUDGET								INSERT
	Bid/Budgeted Amount 4-2-2012	Bid/Budgeted Amount 4-11-2013	Bid/Budgeted Amount 8-2014	Bid/Budgeted Amount 11-24-2014	Bid/Budgeted Amount 24-2015	Bid/Budgeted Amount 5-2017	Bid/Budgeted Amount 28-18	Bid/Budgeted Amount 21-20	
<b>Consultant Costs</b>									
Cost Estimate/Work Plan Prep	\$ 743.75	\$ 743.75	\$ 743.75	\$ 743.75	\$ 340.00	\$ 510.00	\$ 573.75	\$ 1,760.00	\$ -
SI Report Documentation							\$ 3,360.00	\$ 3,040.00	
Groundwater Sampling (1 round@ MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9 & MW-10)						\$ 1,485.00			
Sub-Slab Sampling (5 points)						\$ 1,735.00			
Groundwater Sampling (2 rounds@ MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7 & TW-4)	\$ 2,297.50								
Closure/GIS/CMP Documentation	\$ 3,920.00					\$ 850.00		\$ 3,280.00	
Well Abandonment (8 1-inch & 8 2-inch)	\$ 1,500.00								
Groundwater Sampling (1 round)		\$ 1,385.00						\$ 2,205.00	
Results Documentation (8 wells)		\$ 67.50							
Well Installation (1 well - MW-8)		\$ 795.00							
Additional Vapor Sampling		\$ 765.00						\$ 2,340.00	
Groundwater Sampling (3 rounds@ MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8 & TW-4)		\$ 3,805.00							
Results Documentation		\$ 202.50							
Well Abandonment (MW-8)		\$ 52.75							
Off-site Access			\$ 510.00						
Well Installation (2 wells - MW-9 & 10)			\$ 840.00						
Groundwater Sampling (3 rounds@ MW-9, MW-10 & WG-6)			\$ 735.00						
Results Documentation			\$ 172.50						
Well Abandonment (MW-9 & 10)			\$ 91.50						
Groundwater Sampling (3 rounds @ MW-2, MW-3, MW-4, MW-5, MW-8, MW-9, MW-10 & TW-4)				\$ 3,795.00					
Groundwater Sampling (3 rounds @ MW-6 & MW-7 - eliminate TW-4 from above)					\$ 367.50				
Results and Disposal Documentation				\$ 1,125.00		\$ 425.00			
VMS Inspection and Documentation					\$ 562.50	\$ 510.00			
RAO Evaluation								\$ 1,550.00	
<i>Consultant Cost Total</i>	\$ 8,461.25	\$ 7,816.50	\$ 3,092.75	\$ 5,663.75	\$ 1,270.00	\$ 5,515.00	\$ 3,933.75	\$ 14,175.00	\$ -
<b>Sub-Contractor Costs</b>									
GW Analytical (8 wells-2 rounds)	\$ 1,632.00								
Groundwater Disposal	\$ 325.00	\$ 325.00	\$ 325.00					\$ 325.00	
Groundwater Analytical (8 wells-1 round)		\$ 520.00							
Groundwater Disposal		\$ 325.00							
Well Installation & Soil Disposal (2 wells)		\$ 1,600.00	\$ 2,072.50						\$ -
Vapor Analytical		\$ 223.00				\$ 1,250.00		\$ 2,500.00	
GW Analytical (9 wells-3 rounds)		\$ 1,755.00							
GW Analytical (3 wells-3 rounds)			\$ 585.00						
GW Analytical (8 wells-3 rounds)				\$ 1,560.00					
GW Analytical (1 well-3 rounds)					\$ 195.00				
GW Analytical (9 wells-1 round RNA)					\$ 684.00	\$ 675.00			
GW Analytical (2 wells-1 round)								\$ 150.00	
VMS Repair						\$ 3,000.00			
<i>Sub-Contractor Cost Total</i>	\$ 1,957.00	\$ 4,748.00	\$ 2,982.50	\$ 1,560.00	\$ 879.00	\$ 4,925.00	\$ -	\$ 2,975.00	\$ -
<b>DERF ELIGIBLE SUB-TOTALS</b>	\$ 10,418.25	\$ 12,564.50	\$ 6,075.25	\$ 7,223.75	\$ 2,149.00	\$ 10,440.00	\$ 3,933.75	\$ 17,150.00	\$ -
<b>Non-DERF Eligible Expenses</b>									
Mileage									
DERF Claim									
GW Disposal									
<i>Non-DERF Cost Total</i>									
<b>INVOICE GRAND TOTAL</b>									

Check Numbers





**KEY**

- = SI monitoring well
- (89.13) = groundwater elevation (6-20-18)
- = groundwater elevation contour (0.50 foot interval)
- (NM) = not measured

**Scale**

0 ————— 70

1 inch = 70 feet

All dimensions on this diagram are approximate

File No.: 041101ze
DWG Date: 8-14-2018
Rev Date:
Drawn By: TJO
Checked By (PM): TJO

**B.3.c.2. Groundwater Flow Direction (6-20-18)**  
 Former Saukville Fabricare Property  
 140 South Foster Street  
 Saukville, Wisconsin

**Figure**  
**B.3.c.2.**

