FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

October 15, 2018

Mr. John Hnat
WDNR
2300 N Dr. Martin Luther King Jr Drive
Milwaukee, WI 53212

RE: Additional Investigation and Remedial Actions, Master Cleaners Remediation, 6326 Bluemound Road, Wauwatosa, WI 53212, BRRTS # 02-41-545142

Dear Mr. Hnat:

As requested, this report summarizes the scope of work and DERF budget needed to take this project to case closure.

The site conditions have been summarized in previous correspondence, including the April 4, 2018 Remedial Action Documentation Report and Proposal Additional Remediation Activities report prepared by Fehr Graham, and the subsequent email discussions and correspondence related to the proposed scope of work.

Based on these discussions the following DEF-eligible tasks, actions, and costs are proposed:

- Task 0 / Task 100: Project Management
- Task 105: Well Installation and Groundwater Sampling to Delineate Extent
- Task 103: Addition of EZVI and DHC Bacteria with RA Documentation Report
- Task 6 / 106: Groundwater Monitoring
- Task 7 / 107: Groundwater Monitoring Status Reports
- Task 8 / 108: Closure Request
- Task 9 / 109: Well Abandonment

Requested $74,704

Total w/ #4 260,071.80

#4

Details that have previously been described and discussed with the WDNR over the past six months are briefly summarized on a task by task basis below, and costs are shown relative to historic approved task costs on Table A and Change Order # 5. As requested, a copy of the current DERF Linking Spreadsheet for the entire project is also attached.

Details follow on a Task by Task basis:

DERF Scope of Work

Task 100: Project Management

The project has exceeded the budgeted initial three-year scope of work and management timeline. Additional time is needed to continue correspondence, off-site property owner sharing of information, access to the City of Wauwatosa Right of Way for well installations

and permits / permission, updates, bidding, and overall management of the project scope and budget. Access for installation of the requested additional well (MW-17) on private property at 532 N 64th Street needs to be obtained.

Task 105: Well Installation and Groundwater Sampling of all Site Monitoring Wells to Delineate Extent of Contamination

mw-15
mw-16
mw-17

Additional soil and groundwater investigation north, northwest, and east of SMW-14 is proposed. Three 2.5-inch outside diameter macrocore geoprobe borings will be advanced at locations approximately 130 feet north and northwest of well SMW-14, and one boring will be advanced approximately 40 feet east of SMW-14. Existing monitoring well SMW-13 already defines the extent of impacts straight north of well SMW-11.

Two of the proposed wells (MW-15 and MW-16) will be installed within the east side 64th Street right of way approximately 130 feet north of well SMW-14 and in the west side right of way of 64th Street. Both will be advanced in the grass buffer just east and west of 64th Street, and permission will be obtained from the City of Wauwatosa. Proposed well MW-17 will be advanced south of the house near the driveway of 532 E. 64th Street. Permission for drilling this well will need to be obtained from the property owner.

At each drilling location, a boring will be advanced to a depth of 20 feet, geologically logged, and a small diameter monitoring well will be installed with a ten-foot screened interval and filter pack sand / bentonite surface seal. The wells will be completed flush with the ground surface and protected using a 4-inch diameter traffic weight cover. Two soil samples per boring will be retained for laboratory analysis of VOCs (six total).

The wells will be added to the monitoring well network for the site and will be surveyed and developed. On May 28, 2018, the WDNR provided a variance from the NR141 well construction code that is necessary for use of these small diameter wells.

All existing monitoring wells and the three newly installed monitoring wells will be sampled shortly after new development is complete to help evaluate the current groundwater chemistry and the extent of contamination. Twenty-four samples (two duplicates) will be obtained for analysis of VOCs.

Task 103: Injection Beneath the Building and Within the Plume

After receipt of the latest groundwater chemistry results, the information will be summarized and the need for additional injection activities will be discussed with the WDNR. We anticipate additional injection will be necessary to achieve case closure.

Injection of additional EZVI and bacteria will be completed using geoprobe borings in select areas of the property, including beneath the building. Proposed injection borings (IP-1 through IP-10) are shown on Figure 101 (attached). The WDNR will be contacted to discuss the need and benefits of injection at proposed locations IP-7 and IP-8, and injection at those locations may not be performed. Regardless, the same amount of chemical product will be injected to treat residual contamination, but additional borings may be located elsewhere on the Master Cleaners Property if IP-7 and IP-8 are not desired for injection. Three days is anticipated for injection activities.

Although the most contaminated soil has been removed from beneath the building, residual contamination remains present, and with the building vacant, there is an opportunity to treat this area at IP-1 and IP-2 prior to repurposing the building. EZVI has been shown to successfully eliminate PCE, and the addition of living bacteria, including Dehalococcoides, should be added to the groundwater to consume degradation products that have been increasing as the PCE degrades, namely DCE, VC, and 1-1-DCE.

Injection of an estimated 700 gallons of liquid EZVI containing 5 percent iron (less than 5 microns in size) is proposed. EZVI-CH4 provides both iron and a slow release, long term organic source (food grade soybean oil) with a proprietary formulation developed by NASA to limit methane generation. Injection will take place at an estimated ten injection points using a Geoprobe with interior access capabilities so at least two of the borings can be placed inside the building. Targeted injection depths will be from ten to 16 feet below grade (saturated soil and top of bedrock).

The existing injection permit obtained on November 18, 2015 is valid for five years, and the previous permit included injection of ZVI, so no new permit is needed. The same permit conditions apply to the proposed additional injection, with pre-and post-injection monitoring of select monitoring well headspaces and the neighboring property basement ambient vapors using a PID, four gas meter and water level monitoring. Approximately eight liters of RTB-1 bacteria will also be injected using a nitrogen purge method to maintain anaerobic conditions for the bacteria.

Task 106: Groundwater Monitoring

Following injection, two more rounds of groundwater sampling are expected to be necessary, one a minimum of four months after the proposed injection, and the second approximately eight months after injection. Sampling will be completed from all 22 existing and proposed wells, and will include testing for field parameters, water level elevations, and laboratory analysis of VOCs.

Task 107: Groundwater Monitoring Status Reports

Upon receipt of each round of the laboratory analyses, the data will be tabulated and plotted. After the additional soil borings and injection is complete, a summary report, including the results of the soil and groundwater chemistry testing from the new locations, will be sent to the DNR.

As has been performed, after each sample event, information will be sent to the private well owners that have monitoring wells on their property.

After each full round of groundwater sampling, the data will be processed, and a summary sent to the DNR via email. Assuming the results appear suitable, a request for case closure will be recommended after the second round of additional sampling, eight months following the proposed injection.

Task 108: Closure Request

Under this task, additional funding is requested to complete the closure submittal per the current WDNR requirements. Requirements have grown more stringent since the work was originally laid out and proposed, and considerably more time is needed to finalize a closure request than has been currently budgeted.

Task 109: Well Abandonment

With the installation of additional monitoring wells, there will be more cost associated with well abandonment upon closure of the project.

VPLE Scope

Application and entry into the Voluntary Party Liability Exemption (VPLE) program is expected shortly. There are tasks for this project related to inclusion in the VPLE program that will be completed. These tasks and costs have been provided previously and do not need DNR approval. The tasks include:

- Phase I Investigation Report
- VPLE Application Summary
- Closure Process and VPLE Insurance Premium
- WDNR Review Fees

Schedule

Assuming approval can be provided in October 2018, the project schedule is broken out as follows:

October 2018	Approval
November 2018	VPLE Application, Drilling / Sampling Three Additional Wells
December 2018	Data Transmittal to DNR, Acceptance to VPLE Program
January 2019	Line up Injection
February 2019	Injection
June 2019	Groundwater Sampling All Wells, 4 months after Injection
July 2019	Data Evaluation, Reporting
Oct 2019	Groundwater Sampling All Wells, 8 months after Injection
Nov 2019	Data Evaluation, Report, Closure Potential
Jan 2020	DNR additional Closure Needs, if any
March 2020	Closure Request Submittal
June 2020	WDNR Closure Provided
July 2020	Well Abandonment, VPLE Insurance Requested
Aug 2020	WDNR Issues VPLE Certificate of Closure

I trust this information meets your needs and look forward to approval of the attached cost estimate and budget request.

Sincerely,

Kendrick Ebbott, P.G.
Branch Manager

Attachments:

Figure 101: Proposed Injection and Additional Monitoring Well Locations
Table A: Additional Remedial Action Cost Estimate Oct 15, 2018
DERF Change Order # 4 Oct 15, 2018
DERF Linking Spreadsheet 10 15 2018

O:\Master Drycleaning\15-1209\REPORTS\2018 10 15 Scope Addl Inv and RA.docx

LEGEND

MW–14 — MONITORING WELL / PIEZOMETER

PROPOSED MONITORING WELL

PROPOSED INJECTION BORING

NOTE:GROUNDWATER SAMPLES TAKEN 10/2/17

PCE	TETRACHLOROETHENE (ug/l)
TCE	TRICHLOROEHTENE (ug/l)
cis	cis-1,2,-DICHLOROETHENE (ug/l)
trans	trans-1,2,-DICHLOROETHENE (ug/l)
VC	VINYL CHLORIDE (ug/l)
11DCE	1,1-DICHLOROTHENE (ug/l)
B	BENZENE (ug/l)
E	ETHYLBENZENE (ug/l)
T	TOLUENE (ug/l)
X	XYLENES, TOTAL (ug/l)
N	NAPHTHALENE (ug/l)
TMB	TRIMETHYLBENZENES, TOTAL (ug/l)

ITALICS+	EXCEEDS NR140 PREVENTIVE ACTION LIMIT
BOLD++	EXCEEDS NR140 ENFORCEMENT STANDARD
ND	NO DETECT
DBS	DETECTIONS BELOW STANDARDS

GROUNDWATER FLOW DIRECTION (10/2/17)

ESTIMATED TETRACHLOROETHENE PLUME

ESTIMATED TRICHLOROETHENE PLUME

ESTIMATED cis-1,2 DICHLOROETHENE PLUME

ESTIMATED VINYL CHLORIDE PLUME

MW–16

MW–15

544 64TH ST. HOUSE

536 64TH ST. HOUSE

532 64TH ST. HOUSE

531 63RD ST. HOUSE

MW–17

SMW–14
cis *356++*
trans *23.3+*
VC *253++*
11DCE *3.9+*

SMW–13
NOT SAMPLED

GARAGE

GARAGE

CONC

SMW–12
NOT SAMPLED

524 64TH ST. HOUSE

GARAGE

523 63RD ST. HOUS

SMW–11
PCE *217++*
TCE *81.7++*
cis *117++*
trans 2.5
VC *27.8++*
11DCE *1.3+*

IP7

518 64TH ST. HOUSE

GARAGE

MW–1
TCE *0.51+*
cis 4.8
trans 0.49
VC *4.7++*

SMW–10
E *606+*
T *546+*
X *2,570++*
TMB *933++*
cis *3,220++*
11DCE *32.3++*

64TH STREET

GRASS

SMW–8
B 2.2+
E 1.0
T 1.2
TMB 1.1
TCE *0.75+*
cis 1.2

IP6

ASPH

PZ–2
cis 2.8
trans 1.5

SMW–4
E 29.1
T 13.5
X 137.8
TMB 12.9
cis *930++*
VC *52.9++*

IP5

IP4

MW–2
B <0.50
PCE 2.3+
TCE *0.91+*
cis <0.50
VC <0.18

MILWAUKEE POLICE ASSOCIATION
6310 WEST BLUEMOUND ROAD

B 3.3+
E 7.1
T 0.60
TMB 1.2
TCE *3.9+*
cis *37.2+*
trans 2.6
VC *45.8++*
11DCE 0.43

VOC ND
PZ–
MW–3

SMW–5
NOT SAMPLED

SIDEWALK

GRASS

IP1

SMW–9

IP10

IP9

PCE *621++*
cis *59,700++*
VC *14,200++*
11DCE *600++*

IP2

ASPH

SMW–7

CONC

IP3

SMW–3
B *31.8++*
E 40.8
T 11.9
TMB 1.7
TCE *1.2+*
cis 6.0

SMW–1
NOT SAMPLED

FORMER 2,000 GAL GASOLINE UST

E *2,290++*
T 122
X *12,750++*
N *382++*
TMB *1,902++*

SMW–6
PCE 2.4+
cis 0.31

ASPH

FORMER 3,000 GAL GASOLINE UST

SMW–2
NOT SAMPLED

APPROXIMATE LOCATION OF FORMER DISPENSER

8"SAN

6" WATER

2" GAS

SIDEWALK

GRASS

W. BLUEMOUND ROAD

N

W E

S

30 0 30

GRAPHIC SCALE IN FEET

FEHR GRAHAM — ENGINEERING & ENVIRONMENTAL — ILLINOIS IOWA WISCONSIN

MASTER DRYCLEANING INC.
6326 W. BLUEMOUND RD.
WAUWATOSA, WI 53213

DRWN: MKH DATE: 01/17/14 APPD: KE

TITLE:
Proposed Injection and Monitoring Well Locations

BRRTS: 02–41–545142
JOB NO.:15–1209
PLOT DATE: 8/8/18

FIGURE: 101

G:\C3D\15\15–1209 Master Clnr\Exhibits\15–1209_BASE MAP.dwg, PROP MW–INJ BRNGS

TABLE A: Additional Remedial Action Cost Estimate; DERF Eligible Items
Additonal GW Investigation, Monitoring, Injection, Reporting 10/15/2018
Master Drycleaner, 6326 W. Bluemound Road, Wauwatosa, WI

ITEM DESCRIPTION	Unit Price	Quantity	Units	Total Cost
CONSULTING SERVICES				
Task 100: Project Management (2 years)				
Sr. Hydrogeologist or Engineer	$100.00	30	hour	$3,000.00
Field Technician / Geologist	$70.00	20	hour	$1,400.00
Administrative	$60.00	12	hour	$720.00
Subtotal Task				**$5,120.00**
Task 105: Well Installation and One Round GW Sample all 22 Wells to Delineate Extent				
Three Geoprobe Borings / 1 inch Wells, Access ROW /Private Property, Drill, Develop, Survey, Sample				
GW Sample all new and existing wells - 22 wells, 2 duplicates = 24 per round				
Sr. Hydrogeologist (access, utilities)	$100.00	12	hour	$1,200.00
Field Technician / Geologist (drill, dev, survey)	$70.00	14	hour	$980.00
Field Technician / Geologist (GW Sample)	$70.00	24	hour	$1,680.00
Field Supplies	$20.00	22	well	$440.00
Drafting	$60.00	4	hour	$240.00
Subtotal Task				**$4,540.00**
Task 106 GW Monitoring Two Rounds All 22 Wells				
Two rounds monitoring 22 wells each event but have budget for one round still				
Sr. Hydrogeologist	$100.00	6	hour	$600.00
Field Technician Sample Addl Wells, WL's	$70.00	22	hour	$1,540.00
Technician Addl ship, prep	$70.00	4	hour	$280.00
Field Supplies	$20.00	22	well	$440.00
Subtotal Task				**$2,860.00**
Task 107: Data Evaluation and Interpretation, Status Reports				
Addl Time for private wells commun., and addl samples, addl Data eval, report				
Sr. Hydrogeologist - neighbor letters	$100.00	24	hour	$2,400.00
Sr. Hydrogeologist status report	$100.00	16	hour	$1,600.00
Field Technician Data Entry, Tables	$70.00	15	hour	$1,050.00
Drafting	$60.00	15	hour	$900.00
Subtotal Task				**$5,950.00**
Task 108: Closure Request				
Addl Time due to DNR Increased Requirements since original bid				
Sr. Hydrogeologist	$100.00	16	hour	$1,600.00
Field Technician Data Entry, Tables	$70.00	20	hour	$1,400.00
Drafting	$60.00	40	hour	$2,400.00
Subtotal Task				**$5,400.00**
Task 109: Well Abandonment				
Addl Time for additional wells since original bid				
Sr. Hydrogeologist	$100.00	1	hour	$100.00
Field Technician	$70.00	8	hour	$560.00
Supplies	$50.00	1	lump	$50.00
Subtotal Task				**$710.00**
CONSULTANT SERVICES TOTAL				**$24,580.00**
CONTRACTOR				
Task 105: Well Installation and One Round GW Sample all 22 Wells to Delineate Extent				
Three Geoprobe Borings with 1 inch Wells				
Geoprobe Contractor				
Mob	$500.00	1	Lump	$500.00
Drill / Sample	$10.00	60	foot	$600.00
Well Install	$10.00	60	foot	$600.00
Flush Mount Covers	$150.00	3	each	$450.00
Decon	$75.00	2	hour	$150.00
Laboratory				
Soil VOCs	$52.00	6	each	$312.00
GW VOCs (all wells, 2 dup)	$50.00	24	each	$1,200.00
Subtotal Task				**$3,812.00**
Task 106 GW Monitoring Two Rounds All 22 Wells				
Two rounds monitoring 22 wells each event but have budget for one round still				
Laboratory	$50.00	14	each	$700.00
Subtotal Task				**$700.00**
CONTRACTOR SERVICES TOTAL				**$4,512.00**
TOTAL ESTIMATED COST				**$29,092.00**

CONTINGENCY FOR ADDITIONAL INJECTION				
Task 103: Geoprobe Injection EZVI and DHC Bacteria with Doc Report				
Pre Monitor Post Monitor, 3 days inject, RA Doc Report				
Sr. Hydrogeologist Off Site Access	$100.00	16	hour	$1,600.00
Sr. Hydrogeologist	$100.00	40	hour	$4,000.00
Field Technician / Geologist	$70.00	56	hour	$3,920.00
Field Technician / Geologist (rpt)	$70.00	24	hour	$1,680.00
Drafting	$60.00	12	hour	$720.00
YSI Meter, Water Level Meter, 4 Gas	$196.00	5	day	$980.00
Field Supplies	$25.00	5	day	$125.00
Subtotal Task				**$13,025.00**
CONSULTING SERVICES TOTAL				**$13,025.00**
CONTRACTOR				
Task 103: Geoprobe Injection EZVI and DHC Bacteria				
Chemicals with Shipping				
EZVI 700 gal, 3 totes, Innoculum 8 Liters	$16,250	1	lump	$16,250.00
ISCR Amendment, Field Assist one day	$750	1	day	$750.00
Shipping	$1,500	1	lump	$1,500.00
Geoprobe Contractor				
Daily plus Mob, Indoor Inject	$14,087	1	lump	$14,087.00
Subtotal Task				**$32,587.00**
TOTAL ESTIMATED INJECTION CONTINGENCY COST				**$45,612.00**

TOTAL ESTIMATED COST ADDL ASSESSMENT PLUS ADDL INJECTION	**$74,704.00**

REMEDIAL ACTION CHANGE ORDER # 4: October 15, 2018
Master Cleaners, Wauwatosa, WI BRRTS # 02-41-545142

DESCRIPTION		Unit Price	Quant.	Units	Total ADDL Cost		Prior Apprvd Cost		TOTAL COST
CONSULTANT SERVICES									
Task O / 100: Project Management		See Table A			5120		10620		15740
Task A : Remove DCM					0		0		0
Task B: Geoprobe Borings Inside Bldg					0		1685		1685
Task C: Subslab Vapor Sample / Analysis					0		1765		1765
Task C1: Subslab Vapor Sample / Analysis Neighbor to East, 2nd North					0		2305		2305
Task C2 : Subslab Vapor System Neighbor to North					0		1340		1340
Task C3 Subslab Vapor System Second Neighbor to North (if needed)					0		1340		1340
Task D Floor Drain Removal, Chem Treat Sub Building					0		2390		2390
Task E Vapor Mit System Instln with three comm tests and two chem tests					0		4750		4750
Task E1: Vapor Occupancy Request (not DERF Eligible)					0		1600		1600
Task 1 RA Report, WPDES Permit, Notifications, Access					0		5280		5280
Task 2 Pre-Inj. Baseline GW Sampling (18 wells) Indoor Util Locate					0		3087		3087
Task 3 Injection					0		10760		10760
Task 103 Addition of EZVI and DHC Bacteria with RA Doc Report		See Table A			13025		0		13025
Task 4 Post Inj GW Monitor 4 months					0		3431		3431
Task 5 Inj Doc Report					0		2880		2880
Task 105 Well Installation and GW Sampling to Delineate Extent		See Table A			4540		0		4540
Task 6 / 106 GW Monitoring		See Table A			2860		11478		14338
Task 7 / 107 GW Monitor Status		See Table A			5950		7790		13740
Task 8 / 108 Closure Request		See Table A			5400		6120		11520
Task 9/109 Well Abandonment		See Table A			710		2450		3160
Task F Addl Assessment Utility Corridors					0		2270		2270
Task G Landfill Disposal Approval					0		2020		2020
Task H Soil Excvn and Disposal					0		5800		5800
Task I Contingency Chemical Addn under Building Post Excvn					0		3550		3550
Task J Documentation Report					0		4980		4980
Total Consultant					**37605**		**99691**		**137296**

CONTRACTOR SERVICES									
Task A Remove DCM					0		0		0
Task B Geoprobe Borings inside Bldg					0		1853		1853
Task C Subslab Vapor Sample / Analysis					0		576		576
Task C1: Subslab Vapor Sample / Analysis Neighbor to East					0		1152		1152
Task C2 : Subslab Vapor System Neighbor to North					0		2750		2750
Task C3 Subslab Vapor System Second Neighbor to North (if needed)					0		2750		2750
Task D Floor Drain Removal, Chem Treat Sub-Building					0		8473.5		8473.5
Task E Vapor Mit System Instln with three comm tests and two chem tests					0		3726		3726
Task 2 Pre-Inj Baseline GW Sample (18 wells) Indoor Util locate					0		1300		1300
Task 3 Injection Outside					0		14723.5		14723.5
Task 103 Addition of EZVI/ DHC Bacteria		See Table A			32587				32587
Task 4 Post Inj Monitor 4 months Lab GW					0		900		900
Task 105 Well Installation and GW Sampling to Delineate Extent		See Table A			3812		0		3812
Task 6 GW Monitoring		See Table A			700		6000		6700
Task F Addl Assessment Utility Corridors					0		3903		3903
Task H Soil Excvn and Disposal					0		31195		31195
Task I Contingency Chemical Addn under Building Post Excvn					0		6375		6375
Total Contractor					**37099**		**85677**		**122776**
TOTALS					**74704**		**185368**		**260072**

Master Drycleaners Inc. approves of the site remediation costs described above and authorizes Fehr Graham to proceed with these activities. Fehr Graham shall not exceed any of these costs without receiving written authorization. The terms and conditions of the original contract for this project will apply to these services.

Master Drycleaners Inc. Date

This approval does not guarantee the reimbursement of costs. Final determination regarding the eligibility of costs will be determined at the time of claim review.

Mr. J. Hnat, WDNR Project Manager Date

Kendrick A. Ebbott

15-Oct-18

Mr. Kendrick A. Ebbott, Fehr Graham Date

Site Name: Master Drycleaning
BRRTS #: 02-41-545142
Type of Action: Remedial Action

Dry Cleaner Environmental Response Program
Reimbursement Cost Detail Linking Spreadsheet Form 4400-214D (R 05/12)

TASKS	BUDGET																		DERF COST BREAKOUT (this claim)											
Bid / Budgeted Description	Bid / Budgeted Amount	RA CO # 1, 1/19/16	RA CO # 2, 12/19/16	RA CO # 3, 7/15/17	RA_CO # 4 10/15/18	INSERT	Total Approved Budget	Previous Claims (if applicable)	REMAINING BUDGET	FG	FG	FG	FG	FG	FG	FG	INSERT	Total Invoiced Costs	A Soil Investigation	B Soil Remed	C GW Inv	D Groundwater Remediation	E Air/Vapor Investigation	F Air/Vapor Remediation	G Lab & Other Analysis	H Miscellaneous Costs	Budget Remaining Use (-) to indicate cost over-run	% Task Complete, Remarks
Invoice Date			12/22/2016		Aprvl Pend					1/31/2018	2/28/2018	3/31/2018	4/30/2018	5/30/2018	6/31/2018	9/30/2018												
Invoice Number			CLIENT	CLIENT						80835	81516	82050	82522	83566	84575	85310												
Consultant Costs			DNR	Tenant																									Task % Complete
SI by Sigma																													100% Complete
Task 0: Project Management (3 years)	3,120.00	1,300.00	6,200.00		5,120.00		$ 15,740.00	$ 9,400.00	$ 1,705.00	$ 200.00	$ 300.00		$ 715.00	$ 1,755.00	$ 1,155.00	$ 500.00		$ 4,635.00				$ 4,635.00					$ 1,705.00	75
Task A: Remove Dry Clean Machine and Residual Chemicals	0.00	0.00	0.00				$ -	$ -	$ -									$ -									$ -	100% Complete
Task B: Geoprobe Borings Inside Bldg	0.00	1,685.00	0.00				$ 1,685.00	$ 1,416.50	$ 268.50									$ -	$ -								$ 268.50	100% Complete
Task C Subslab Vapor Sample and Analysis	0.00	1,765.00	0.00				$ 1,765.00	$ 1,770.00	$ (5.00)									$ -					$ -				$ (5.00)	100% Complete
Task C1: Subslab Vapor Sample and Analysis neighbor to East and 2nd North	0.00	0.00	2,305.00				$ 2,305.00	$ 2,313.00	$ (8.00)									$ -					$ -				$ (8.00)	100% Complete
Task C2 Subslab Vapor System Neighbor to North	0.00	0.00	1,340.00				$ 1,340.00	$ 300.00	$ 1,040.00									$ -					$ -				$ 1,040.00	15%
Task C3 Subslab Vapor System Second Neighbor to North	0.00	0.00	1,340.00				$ 1,340.00	$ 250.00	$ 1,090.00									$ -					$ -				$ 1,090.00	15%
Task D : Floor Drain Removal, Chem Treat Sub Building	0.00	2,390.00					$ 2,390.00	$ 3,000.00	$ (610.00)									$ -		$ -							$ (610.00)	100% Complete
Task E Vapor Mitigation System Comm test, indoor air chem 2 events and Documentation	0.00	1,460.00	3,290.00				$ 4,750.00	$ 3,471.30	$ 1,278.70									$ -					$ -				$ 1,278.70	75%
Task E1: Vapor Occupancy Request (not DERF Eligible)				1,600.00			$ 1,600.00	$ 480.00	$ 1,120.00									$ -					$ -				$ 1,120.00	100% Complete
Task F : Addl Assessment Utility Corr			2,270.00				$ 2,270.00	$ 2,270.00	$ -									$ -		$ -							$ -	100% Complete
Task G Landfill Disposal Approval			2,020.00				$ 2,020.00	$ 1,485.00	$ 535.00									$ -		$ -							$ 535.00	100% Complete
Task H: Soil Excvn and Disposal			5,800.00				$ 5,800.00	$ 5,769.90	$ 30.10									$ -		$ -							$ 30.10	100%
Task I: Contingency Addition Chemical to Base			3,550.00				$ 3,550.00	$ 1,250.00	$ 30.00			$ 2,270.00						$ 2,270.00				$ 2,270.00					$ 30.00	100%
Task J: Documentation Report			4,900.00				$ 4,560.00	$ 4,655.00	$ (1,910.00)				$ 1,575.00	$ 660.00				$ 2,235.00		$ 2,235.00							$ (1,910.00)	100% Complete
Task 1: RA Report, WPDES Permit, Notifications, Access Agrmnt	5,280.00						$ 5,280.00	$ 5,302.00	$ (22.00)									$ -		$ -							$ (22.00)	100% Complete
Task 2: Prelnj Baseline GW Sampling (18 wells) Indoor Util Locate	3,087.00						$ 3,087.00	$ 3,130.69	$ (43.69)									$ -				$ -					$ (43.69)	100% Complete
Task 3 Injection	10,760.00						$ 10,760.00	$ 10,700.03	$ 59.97									$ -				$ -					$ 59.97	100% Complete
Task 103 Addn EZVI / DHC Bact					13,025.00		$ 13,025.00	$ -	$ 13,025.00																		$ 13,025.00	0%
Task 4 Post Inj Monitor 2 weeks Field, 4 Monhs Lab GW, Field Vapor	3,431.00						$ 3,431.00	$ 3,431.00	$ -									$ -				$ -					$ -	100%
Task 5 Inj Doc Report	2,880.00						$ 2,880.00	$ 2,860.00	$ 20.00									$ -				$ -					$ 20.00	100%
Task 105 Well Inst/ GW Sam Extnt					4,540.00		$ 4,540.00	$ -	$ 4,540.00																		$ 4,540.00	0%
Task 6: GW Monitoring 6 events at 12 wells	8,718.00		2,760.00		2,860.00		$ 14,338.00	$ 8,343.99	$ 5,994.01									$ -				$ -					$ 5,994.01	75%
Task 7 GW Monitor Status	$ 4,140.00		$ 3,650.00		$ 5,950.00		$ 13,740.00	$ 6,080.00	$ 4,175.00	$ 2,935.00	$ 550.00							$ 3,485.00				$ 3,485.00					$ 4,175.00	75%
Task 8 Closure Request w DNR Fees	$ 6,120.00				$ 5,400.00		$ 11,520.00	$ -	$ 11,520.00									$ -									$ 11,520.00	0%
Task 9 Well Abandonment	$ 2,450.00				$ 710.00		$ 3,160.00	$ -	$ 3,160.00									$ -									$ 3,160.00	0%
																		$ -									$ -	
Consultant Cost Total	$ 49,566.00	$ 8,600.00	$ 39,505.00	$ 1,600.00	$ 37,605.00		$ 137,296.00	$ 77,678.41	$ 124,671.00	$ 3,135.00	$ 850.00	$ 2,270.00	$ 2,290.00	$ 2,415.00	$ 1,165.00	$ 500.00		$ 12,625.00									$ 46,992.59	
Sub-Contractor Costs																													
Service	$ -																	$ -										
Task A: Remove Dry Clean Machine and Residual Chemicals								$ -										$ -										
Task B: Geoprobe Borings Inside Bldg	0.00	1,391.00	0.00				$ 1,391.00	$ 1,580.00	$ (189.00)									$ -		$ -							$ (189.00)	100%
Lab		462.00	0.00				$ 462.00	$ 566.00	$ (104.00)									$ -							$ -		$ (104.00)	100%
Task C Subslab Vapor Sample and Analysis	0.00	576.00	0.00				$ 576.00	$ 490.00	$ 86.00									$ -							$ -		$ 86.00	100%
Task C1: Subslab Vapor Sample and Analysis neighbor to East and 2nd North			1,152.00				$ 1,152.00	$ 880.00	$ 272.00									$ -							$ -		$ 272.00	100%
Task C2 Subslab Vapor System Neighbor to North			2,750.00				$ 2,750.00	$ -	$ 2,750.00									$ -									$ 2,750.00	15%
Task C3 Subslab Vapor System Second Neighbor to North			2,750.00				$ 2,750.00	$ -	$ 2,750.00									$ -									$ 2,750.00	15%
Task D : Floor Drain Removal, Chem Treat Sub Building	0.00	7,550.00	0.00				$ 7,550.00	$ 6,009.04	$ 1,540.96									$ -		$ -							$ 1,540.96	100%
Mix, Inject		-	-				$ -	$ -	$ -									$ -									$ -	
Chemical and Ship		637.50	0.00				$ 637.50	$ -	$ 637.50									$ -									$ 637.50	100%
Lab		286.00	0.00				$ 286.00	$ 261.00	$ 25.00									$ -							$ -		$ 25.00	100%
Task E Vapor Mitigation System and Documentation	0.00	2,500.00	0.00				$ 2,500.00	$ 2,260.00	$ 240.00									$ -					$ -				$ 240.00	100%
Addl Testing			650.00				$ 650.00	$ -	$ 650.00									$ -									$ 650.00	100%
Lab VOCs Vapor			576.00				$ 576.00	$ 220.00	$ 356.00									$ -							$ -		$ 356.00	100%
Task F : Addl Assessment Utility Corr	-	-	-				$ -	$ -	$ -									$ -									$ -	
Contractors			2,337.00				$ 2,337.00	$ 1,780.54	$ 556.46									$ -		$ -							$ 556.46	100%
Lab			1,566.00				$ 1,566.00	$ 1,042.00	$ 524.00									$ -							$ -		$ 524.00	100%
Task H: Soil Excvn and Disposal	-	-	-				$ -	$ -	$ -									$ -									$ -	
Contractors			28,190.80				$ 28,190.80	$ 28,248.36	$ (57.56)									$ -		$ -							$ (57.56)	100%
Landfill			2,380.00				$ 2,380.00	$ 2,429.15	$ (49.15)									$ -		$ -							$ (49.15)	100%
Lab			624.00				$ 624.00	$ 468.00	$ 156.00									$ -							$ -		$ 156.00	100%
								$ -	$ -									$ -									$ -	
Task I: Contingency Addition Chemical to Base								$ -	$ -									$ -									$ -	
Contractor			2,350.00				$ 2,350.00	$ 990.00	$ 1,360.00									$ -				$ -					$ 1,360.00	100%
Chemical			4,025.00				$ 4,025.00	$ 3,787.50	$ 237.50									$ -				$ -					$ 237.50	100%
																		$ -										
																		$ -										
Task 2: Prelnj Baseline GW Sampling (18 wells) Indoor Util Locate																		$ -									$ -	
Lab	900.00						$ 900.00	$ 950.00	$ (50.00)									$ -							$ -		$ (50.00)	100% Complete
Private Locate	400.00						$ 400.00	$ 378.00	$ 22.00									$ -				$ -					$ 22.00	100% Complete
Task 3 Injection								$ -	$ -									$ -									$ -	
Geoprobe Injection 4 day	6,735.00						$ 6,735.00	$ 9,660.00	$ (2,925.00)									$ -				$ -					$ (2,925.00)	100%
Chemical Supplier and Mix	7,480.50						$ 7,480.50	$ 7,596.03	$ (115.53)									$ -				$ -					$ (115.53)	100%
Lab Requd by Inject Permit	0.00	508.00	0.00				$ 508.00	$ 508.00	$ -									$ -							$ -		$ -	100%
Task 103 Addn EZVI / DHC Bacta					32,587.00		$ 32,587.00	$ -	$ 32,587.00									$ -									$ 32,587.00	0
								$ -	$ -									$ -									$ -	
Task 4 Post Inj Monitor 2 weeks Field, 4 Monhs Lab GW, Field Vapor								$ -	$ -									$ -									$ -	
Lab	900.00						$ 900.00	$ 950.00	$ (50.00)									$ -							$ -		$ (50.00)	100%
Task 105 Well Inst/ GW Sam Extnt					3,812.00		$ 3,812.00	$ -	$ 3,812.00																		$ 3,812.00	0%
Task 6: GW Monitoring 6 events at 12 wells			900.00				$ 900.00	$ 700.00	$ 200.00									$ -							$ -		$ 200.00	80%
lab	5,100.00				700.00		$ 5,800.00	$ 3,150.00	$ 2,650.00									$ -							$ -		$ 2,650.00	80%
																		$ -									$ -	
																		$ -									$ -	
Sub-Contractor Cost Total	$ 21,515.50	$ 13,910.50	$ 50,250.80	$ -	$ 37,099.00		$ 122,775.80	$ 74,903.62	$ 47,872.18	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -									$ 47,872.18	
DERF ELIGIBLE SUB-TOTALS	$ 71,081.50	$ 22,510.50	$ 89,755.80	$ 1,600.00	$ 74,704.00		$ 260,071.80	$ 152,582.03		$ 3,135.00	$ 850.00	$ 2,270.00	$ 2,290.00	$ 2,415.00	$ 1,165.00	$ 500.00	##	$ 12,625.00	$ -	$ 2,235.00	$ -	$ 10,390.00	$ -		$ -	$ -	$ 94,864.77	
Non-DERF Eligible Expenses																													
VPLE Submittal																													
Phase I for VPLE								$ -	$ (1,730.00)						840.00	890.00		1,730.00										
City Wauwatosa Permit								$ 458.00	$ (533.00)				Tosa Permit	$ 75.00				$ 75.00										
DNR Injectin Permit, Tech Rev Fee								$ 2,800.00	$ (2,800.00)									$ -										
Occupancy Issues								$ 492.50	$ (492.50)																			
Non-DERF Cost Total								$ 3,258.00		$ -	$ -	$ -	$ -	$ 75.00	$ 840.00	$ 890.00		$ 1,805.00										
INVOICE GRAND TOTAL								$ 158,614.82		$ 3,135.00	$ 850.00	$ 2,270.00	$ 2,290.00	$ 2,490.00	$ 2,005.00	$ 1,390.00	##	$ 14,430.00										

Total DERF Eligible Costs This Claim $ 12,625.00

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