MSA PROFESSIONAL SERVICES
More ideas. Better solutions.

January 30, 2017

Kathy Dierickx
St. Vincent De Paul Thrift Store
169 N. Central Avenue
Marshfield, WI 54449

Estate of Thomas Judge/Hangers Cleaners
c/o Stephanie Judge
1115 Mohican Pass
Madison, WI 53711

Re: Status Report, Proposal for Additional Geoprobe Investigation
Former Quick Cleaners Property, 105 E. Arnold Street, Marshfield
WDNR BRRTS # 02-72-548229
Former Hangers Cleaners Property, 213 N. Central Avenue, Marshfield
WDNR BRRTS #02-72-283048

Dear Kathy and Stephanie:

In October 2016 MSA performed seven Geoprobe soil borings downgradient of your two sites referenced above. The purpose of the soil borings was to grab a groundwater sample, in order to define the downgradient extent of the combined groundwater contaminant plumes from the two sites.

The locations of the seven temporary well points are shown on Figure 4 – attached. They are labeled TW-1 through TW-7. Each boring was advanced several feet into the water table, and then a one inch temporary well was installed. The well was bailed or pumped until sediment free water was achieved. In a few of the borings, there was little water produced, so the well was bailed dry, and allowed to recharge prior to collecting the sample. Note that insufficient water was present at TW-2, so no sample was collected from this location.

The tetrachloroethene (PERC) concentration is shown on Figure 4 for the last sample collected from each of these seven well points, in addition to the permanent monitoring wells installed for the two sites. As you can see, the PERC concentration was still quite high at downgradient temporary wells TW-3 and TW-5. The Wisconsin Administrative Code NR 140 enforcement standard for PERC is 5 ug/L. The DNR requires that we define the extent of contamination to this level, so ideally our downgradient wells need to be at or below 5 ug/L.

Based on this, and after discussions with the DNR project manager Tom Hvizdak, we have decided to not install the permanent wells that were included in the last approved budget at this time. It doesn't make sense to install them until we know the extent of the contamination. The goal of the permanent well installations is to position wells at the downgradient edge of the plume to define the extent, and monitor any variations over time.

Therefore, in consultation with the DNR, we have decided to cancel the approved budget for the monitoring well installation, and proceed with additional geoprobe borings and temporary well points, like those in October 2016, to attempt to define the extent of the groundwater contamination. If this additional sampling is successful in getting a "clean" boundary defined, we would then submit a proposal for additional monitoring well installations.

Hangers Cleaners/Quick Cleaners Proposal
January 30, 2017

MSA is proposing ten additional sampling locations, as shown on the attached City of Marshfield GIS map. The temporary locations are located to the north and northeast of the existing wells, and are spaced at approximately one city block intervals. The total estimated budget for this work, including project management tasks such as communications with the DNR over the last few months, development of this scope of work and estimates, and projected future costs for project management, drilling, sampling and a status report, is $8,229.00. **Split 50/50 between your two sites, the cost to each site is estimated at $4,114.50.**

To simplify the bookkeeping for this project, the DNR and MSA have decided to zero out the remaining balances that were approved for various task orders for these projects, in order to start with a fresh budget and get a better idea of the approved costs for each site. I have provided an updated spreadsheet showing the reduction in cost for each site, and the addition of this proposed budget. For Quick Cleaners, the approved budget reduction is $13,804.31 (to remove remaining approved budget from various task orders) minus the proposed request for this scope of work of $4,114.50, for a total budget reduction of **$9,689.81**. For Hangers Cleaners, the approved budget reduction is $14,141.80 (to remove remaining approved budget) minus the proposed request for this work of $4,114.50, for a total budget reduction of **$10,027.30**.

Note that the approved budget does not include the City of Marshfield drilling permit fee of $100-200. This fee is ineligible for DERF reimbursement. The cost for the permit will be listed as a separate line item on your invoice, and will be split between the two sites.

A Task Order for the estimated costs for your portion of the proposed new scope of work outlined above is included for your review and approval. Please sign one copy of the task order where indicated and return it to me indicating your approval to proceed with the scope of work.

Please call if you have any questions.

Sincerely,

Jayne Englebert

Jayne Englebert
Senior Hydrogeologist

cc: Tom Hvizdak, DNR
Marsha Judge

Enclosures:
Task Order (2 copies)
DNR Form 4400-233 – Cost Summary
Figure 4 – Monitoring Well Location Map
City of Marshfield GIS Map with proposed temporary well locations
Table – Laboratory Results – Groundwater
Laboratory Report – October 2016 groundwater sampling
Soil Boring Logs – TW-1 through TW-7

Task Order – January 2017

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL

To: **Estate of Thomas J. Judge**
% Stephanie Judge, Personal Representative
1115 Mohican Pass
Madison, WI 53711

Date of Issuance: **January 30, 2017**

MSA Project No.: **10649000**

This task order will acknowledge that MSA Professional Services, Inc. (MSA) is authorized to begin work on the following project:

Project Name: Former Hangers Cleaners Project - Additional Site Investigation

The scope of the work authorized is: Additional Scope of Work as described in the proposal letter dated January 30, 2017.

The schedule to perform the work is:

approximate start:	February 2017
approximate completion:	April 2017

The estimated fee for the work is: The total cost for this phase of work is estimated to be $8,229.00. Due to the 50/50 cost split with St. Vincent de Paul of Marshfield, your portion is estimated at $4114.50 You will be billed for time and materials, not to exceed this total without prior authorization.

This authorization for the work described above shall serve as the Agreement between MSA and OWNER. All services shall be performed in accordance with the Environmental Consulting Services Agreement dated June 20, 2008. Any attachments or exhibits referenced in the original Agreement are made part of this Task Order.

Approval: MSA shall commence work on this project in accordance with your written authorization. This authorization is acknowledged by signature of the authorized representatives of the parties to this Agreement. A copy of this Agreement signed by the authorized representatives shall be returned for our files.

ESTATE OF THOMAS JUDGE

_____
Stephanie Judge

Date:_____

1115 Mohican Pass
Madison, WI 53711
Phone: (608) 886-5752

MSA PROFESSIONAL SERVICES, INC.

Richard Lyster

_____
Richard Lyster, Team Leader

Date: January 30, 2017

1230 South Boulevard
Baraboo, WI 53913
Phone: (608) 356-2771
Fax: (608) 356-2770

Task Order – January 2017

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL

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Stephanie Judge

Date:_____

1115 Mohican Pass
Madison, WI 53711
Phone: (608) 886-5752

MSA PROFESSIONAL SERVICES, INC.

Richard Lyster, Team Leader

Date: January 30, 2017

1230 South Boulevard
Baraboo, WI 53913
Phone: (608) 356-2771
Fax: (608) 356-2770

DERF Site Investigation Bid Sheet
Consultant Bid Summary

Site Information

Site Name Former Hangers Cleaners and Former Quick Cleaners, Marshfield, WI

Consultant Name MSA Professional Services, Inc.	Applicant Name

Bid Summary

Drilling Costs Total =	**3,610.00**
Analytical Costs Total =	**770.00**
Consulting Costs Total =	**3,674.00**
Misc Costs Total =	**175.00**
Grand Total =	**$8,229.00**

I certify that the costs are an accurate estimate of my total projected costs for the site investigation and I understand and will adhere to s.292.65 Stats. and ch NR 169, Wis. Adm. Code.

Consultant Signature	Date
Jayne Eglebert	1-30-2017

Please attach to these forms a written narratige specifying how the tasks outlined in these sheets will be performed.

Consultant Name: MSA
Site Name: Hangers/SVDP Marshfield
BRRTS #:
Date:January 30, 2017

DERF Site Investigation Bid Sheet
Drilling Costs

Drilling Costs						
Task	Interval	Number of Borings or Wells	Number of Days	Total Number Feet Drilled	Cost/feet, Day or Well	Total Cost
Well installation and Completion						
2 inch PVC	___ ft to ___ft					
	___ ft to ___ ft					
	___ ft to ___ ft					
	> ___ ft					
Decontamination Costs						
Mobilization Costs						
Auger Borings (continuous sampling)						
4 1/4 ID HSA	0 to 40 ft					
	40 to 80 ft					
	___ ft to ___ ft					
	> ___ ft					
Decontamination Costs						
Mobilization Costs						
Auger Borings (specify split spoon sampling interval)						
	___ ft to ___ft					
	___ ft to ___ ft					
	___ ft to ___ ft					
	> ___ ft					
Decontamination Costs						
Mobilization Costs						
Direct Push Borings (per point)						
Soil sampling	< ___ ft depth	10		180	6.50/foot	1,170.00
Water sampling	___ ft - ___ ft depth	10			$35/each	350.00
Temporary Well Installation		8		180	$6.25/foot	1,125.00
Well abandonment		8		180	$1.00/foot	180.00
Concrete Coring/patching		0			$20/each	
Asphalt patching/coring		0			$10/each	
Downtime	> ____ ft depth	1			$85/hour	85.00
Decontamination Costs						
Mobilization Costs						400.00
Well Development (if done by subcontractor)						
	Monitoring Wells					
	Piezometers					
	Recovery Wells					
Other						
Drums		0			$60/ea	
Flush Mount Covers		0			$250/ea	
Protector Pipes						
Traffic Control		1				300.00
Total Drilling Costs						3,610.00

Consultant Name: MSA
Site Name: Hangers/Quick Cleaners
BRRTS #:
Date: January 30, 2017

DERF Site Investigation Bid Sheet
Analytical Costs

Parameter	WI Certified Lab			Field Test/Field Kit			Mobile Lab			
	$/ sample	# samples	Method Used	$/ sample	# samples	Method Used	$/Sample $/Day	# Samples # Days	Method Used	Total Costs
Solids Analysis										
VOCs										$0.00
TCLP										$0.00
RCRA Metals										$0.00
Duplicate Analyses										$0.00
Blank Analyses										$0.00
Other: (Specify)										$0.00
										$0.00
Water Analysis (low flow sampling assumed unless otherwise indicated at bottom of this sheet)										
VOCs	70	10	8260							$700.00
Nitrate*										$0.00
Dissolved Oxygen*										$0.00
Temperature*										$0.00
Ferrous Iron*										$0.00
Sulfate*										$0.00
Sulfide*										$0.00
ORP*										$0.00
pH*										$0.00
TOC*										$0.00
Alkalinity*										$0.00
Chloride*										$0.00
Spec. Conductance*										$0.00
Ethene/Ethane/Methane*										$0.00
Hydrogen*										$0.00
Carbon Dioxide*										$0.00
RCRA Metals										$0.00
Duplicate Analyses										$0.00
Blank Analyses	70	1	8260							$70.00
Other: (Specify)										$0.00
										$0.00
Air Analysis										
VOCs										$0.00
TCE										$0.00
PCE (minimum detection limit is <10 ppbv)										$0.00
Other: (Specify)										$0.00
										$0.00
Waste Analyses (soil/water)										
										$0.00
										$0.00
Miscellaneous (specify)										
			TO-15							$0.00
										$0.00
Charge for Mobile Lab (indicate # days and daily fee)										
Total Analytical Costs										$770.00

* Natural Attenuation parameters required for consideration of NA as remedy.

Consultant Name: MSA
Site Name: Hangers/Quick Cleaners
BRRTS #:
Date: January 30, 2017

DERF Site Investigation Bid Summary
Consultant Costs

		Hours/Task																
Position (specify)	Hourly Rate	Project Management	Scope Development. Comm. W. DNR, change Order		City of Marshfield Permitting (two permits)	Drilling Oversight - Geoprobe							Status Report		Other (specify)			Total Costs
Professional Staff																		
Project Manager	100	4	8										2					$1,400.00
Sr. Hydrogeologist	90				2	14							8					$2,160.00
																		$0.00
																		$0.00
																		$0.00
Field Staff																		
Env. Specialist	62																	$0.00
																		$0.00
																		$0.00
																		$0.00
																		$0.00
																		$0.00
Office Support Staff																		
Administrative	42																	$0.00
Drafting	57												2					$114.00
																		$0.00
																		$0.00
																		$0.00
Total Consulting Costs		$400.00	$800.00	$0.00	$180.00	$1,260.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,034.00					$3,674.00

Consultant Name: MSA
Site Name:Hangers/Quick Cleaners
BRRTS #:
Date: January 30, 2017

DERF SIte Investigation Bid Summary Sheet
Miscellaneous Costs

Major Activity	Specifications	Commodity Unit (specify)	Unit Rate	Number of Units	Total Cost
IDW Disposal					
Water from well sampling	Non-Hazardous	gallons	$1.00/gallon	0	$0.00
	Hazardous				
Equipment Rental (list and include shipping costs if applicable)					
Helium Canister Refill		1 use	$30.00		
Concrete Drill					
Field Supplies (list)					
Entech Probe			$50.00		
Water Level Meter			$25.00		
PID Meter			$75.00	1	$75.00
Helium Detector			$50		
Surveying					
Level and Tripod			$75.00	0	$0.00
Personal Protection Equipment (list)					
Sample Shipping Costs					
UPS - Ground					$100.00
Other (specify)					
Total Miscellaneous Costs					$175.00

Reminders: DERF does not reimburse for attorney, closure or GIS fees. Mileage and meals are also non-reimbursable. Also, costs to prepare a reimbursement application and discuss the application with the department are not reimburseable. No expedited shipping w/o prior PM approval.

Site Name: *Former Hangers Cleaners, 213 N. Central Ave., Marshfield*
BRRTS #: *02-72-283048*
Type of Action: *Additional SI Investigation-Vapor Investigation, GW Sampling*

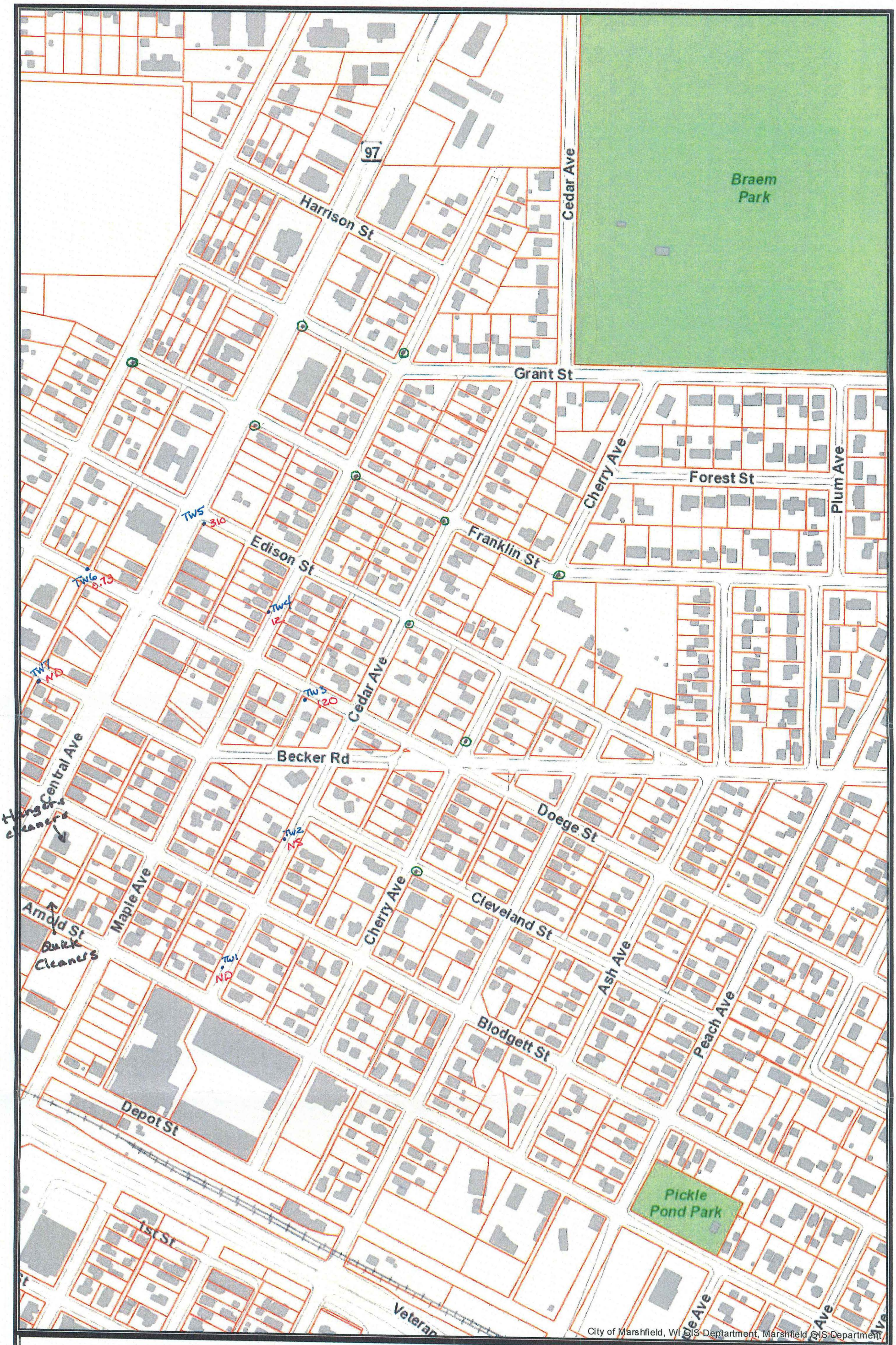
Dry Cleaner Environmental Response Program
Reimbursement Cost Detail Linking Spreadsheet Form 4400-214D (R 08/12)

TASKS	BUDGET														DERF COST BREAKOUT (this claim)									
Bid / Budgeted Description	Bid / Budgeted Amount (Change Order #7 - December 2012	Bid / Budgeted Amount (Change Order #8 - August 2013)	Change Order #9, January 20, 2015	Change Order #10, Approved June 14, 2016	To clear and zero out previous balances	Change Order, January 30, 2017	INSERT	Total Approved Budget	Previous Claims (If applicable)	*MSA #5, 6/18/15 (Order #9)*	*MSA #6, August 2016*	*MSA #7, November 2016*	INSERT	Total Invoiced Costs	A Soil Investigation	B Soil Remediation	C Groundwater Investigation	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
Consultant Costs																								
Task Order #7							$ -	$ -						$ -									$ -	
Project Management	$ 380.00				$ (285.00)			$ 95.00	$ 95.00					$ 95.00									$ -	
Workplan Development	$ 255.00				$ (255.00)			$ -						$ -									$ -	
Access/Permits	$ 530.00				$ (161.25)			$ 368.75	$ 368.75					$ 368.75									$ -	
Drilling Oversight	$ 812.00				$ (101.50)			$ 710.50	$ 710.50					$ 710.50									$ -	
Traffic Control Design	$ 680.00				$ (510.00)			$ 170.00	$ 170.00					$ 170.00									$ -	
Review Tape	$ 340.00				$ (100.00)			$ 240.00	$ 240.00					$ 240.00									$ -	
Status Report	$ 870.00							$ 870.00	$ 870.00					$ 870.00									$ -	
PID	$ 75.00							$ 75.00	$ 75.00					$ 75.00									$ -	
								$ -						$ -									$ -	
Task Order #8								$ -						$ -									$ -	
Project Management		$ 760.00			$ (310.00)			$ 450.00	$ 450.00					$ 450.00									$ -	
Access		$ 720.00			$ 357.00			$ 1,077.00	$ 762.00		$ 315.00			$ 1,077.00					$ 315.00				$ -	
Install Subslab Probes		$ 800.00			$ (552.00)			$ 248.00	$ 248.00					$ 248.00									$ -	
Subslab Probe Sampling		$ 496.00			$ 155.00			$ 651.00	$ 651.00					$ 651.00									$ -	
Air Status Report		$ 459.00			$ (31.50)			$ 427.50	$ 427.50					$ 427.50									$ -	
Groundwater Sampling		$ 1,520.00			$ (500.00)			$ 1,020.00	$ 1,020.00					$ 1,020.00									$ -	
GW Discharge Permit		$ 180.00			$ (90.00)			$ 90.00	$ 90.00					$ 90.00									$ -	
GW Status Report		$ 819.00			$ (414.00)			$ 405.00	$ 405.00					$ 405.00									$ -	
								$ -						$ -									$ -	
Task Order #9								$ -						$ -									$ -	
Project Management			$ 380.00		$ (255.00)			$ 125.00		$ 125.00				$ 125.00					$ 125.00				$ -	
Vapor Sampling Access			$ 360.00					$ 360.00		$ 360.00				$ 360.00					$ 360.00				$ -	
Subslab probe Sampling			$ 974.00		$ (36.50)			$ 937.50		$ 937.50				$ 937.50					$ 937.50				$ -	
Status Report			$ 448.00					$ 448.00		$ 448.00				$ 448.00					$ 448.00				$ -	
								$ -																
Task Order #10								$ -																
Project Management, permitting, access				$ 560.00	$ 115.00			$ 675.00			$ 275.00	$ 400.00		$ 675.00				$ 675.00					$ -	
Vapor Sampling, Access								$ -						$ -									$ -	
Groundwater Sampling				$ 1,358.00	$ (614.00)			$ 744.00			$ 744.00			$ 744.00				$ 744.00					$ -	
Drilling - Geoprobe and Wells				$ 1,260.00	$ (699.00)			$ 561.00				$ 561.00		$ 561.00				$ 561.00					$ -	
Status Reports				$ 1,161.00	$ (1,014.75)			$ 146.25			$ 146.25			$ 146.25				$ 146.25					$ -	
Task Order #11																								
Project Management						$ 690.00																		
Drilling Oversight						$ 630.00																		
Status Report						$ 517.00																		
								$ -						$ -									$ -	
Consultant Cost Total	*$ 3,942.00*	*$ 5,754.00*	*$ 2,162.00*	*$ 4,339.00*	*$ (5,302.50)*	*$ 1,837.00*	*$ -*	$ 10,894.50	$ 6,582.75	$ 1,870.50	$ 1,480.25	$ 961.00		*$ 10,894.50*									*$ -*	
Sub-Contractor Costs																								
Laboratory	$ 1,250.00	$ 1,940.00	$ 1,375.00	$ 1,540.00	$ (2,446.75)	$ 385.00	$ -	$ 4,043.25	$ 2,522.00	$ 430.00	$ 536.75	$ 169.50		$ 3,658.25							$ 1,136.25		$ 385.00	
GW Disposal		$ 37.50		$ 225.00	$ (41.84)			$ 220.66	$ 92.75		$ 127.91			$ 220.66								$ 127.91	$ -	
Entech Probes		$ 200.00	$ 75.00		$ (25.00)			$ 250.00	$ 200.00	$ 50.00				$ 250.00								$ 50.00	$ -	
Equipment Rental		$ 280.00	$ 140.00	$ 112.50	$ (222.50)	$ 37.50		$ 347.50	$ 170.00	$ 102.50		$ 37.50		$ 310.00								$ 140.00	$ 37.50	
Shipping		$ 100.00	$ 75.00		$ (94.50)	$ 50.00		$ 130.50	$ 47.63	$ 32.87				$ 80.50								$ 32.87	$ 50.00	
Drilling	$ 1,230.00			$ 4,290.00	$ (3,137.75)	$ 1,805.00		$ 4,187.25	$ 1,270.75			$ 1,111.50		$ 2,382.25								$ 1,111.50	$ 1,805.00	
Traffic Control	$ 3,000.00				$ (2,871.00)			$ 129.00	$ 129.00					$ 129.00									$ -	
								$ -						$ -									$ -	
								$ -						$ -									$ -	
								$ -						$ -									$ -	
Sub-Contractor Cost Total	*$ 5,480.00*	*$ 2,557.50*	*$ 1,665.00*	*$ 6,167.50*	*$ (8,839.34)*	*$ 2,277.50*	*$ -*	*$ 9,308.16*	$ 4,432.13	$ 615.37	$ 664.66	$ 1,318.50		*$ 7,030.66*									*$ 2,277.50*	
DERF ELIGIBLE SUB-TOTALS	**$ 9,422.00**	*$ 8,311.50*	*$ 3,827.00*	*$ 10,506.50*	*$ (14,141.84)*	*$ 4,114.50*	$ -	**$ 20,202.66**	**$ 11,014.88**	**$ 2,485.87**	**$ 2,144.91**	**$ 2,279.50**	$-	**$ 17,925.16**	$ -	$ -	$ -	$ 2,126.25	$ 2,185.50	$ -	$ 1,136.25	$ 1,462.28	$ 2,277.50	

Non-DERF Eligible Expenses									
City of Marshfield Permit					$ 50.00		$ 50.00		
							$ -		
Non-DERF Cost Total	$ -	$ -	$ -	$ 50.00			*$ 50.00*		
INVOICE GRAND TOTAL	**$ 11,014.88**	**$ 2,485.87**	**$ 2,144.91**	**$ 2,329.50**	##		**$ 17,975.16**		

Check Numbers

DERF Breakout Total $ 6,910.28
Total DERF Eligible Costs This Claim $ 6,910.28



Marshfield GIS Map

Author: Marshfield GIS Department

Printed: 1/17/2017

⊙ proposed temp well location - Jan 2017

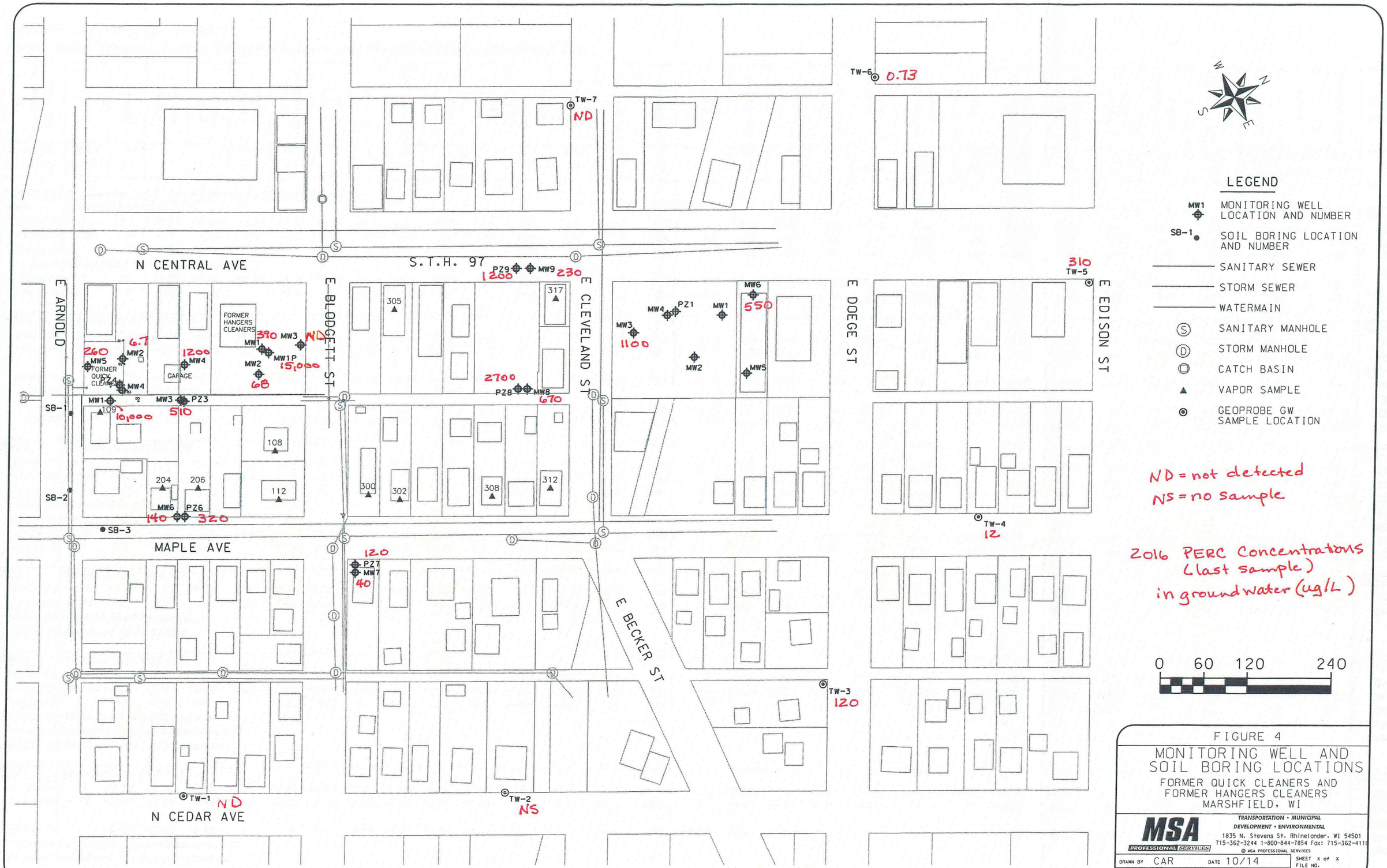
N

0 160 320 640

Feet

This is not a legal survey document. This map was compiled by the City of Marshfield's Geographic Information System based on interpretation of resources to the date printed herein.

Sources: City of Marshfield GIS Department



LEGEND

- MW1 — MONITORING WELL LOCATION AND NUMBER
- SB-1 — SOIL BORING LOCATION AND NUMBER
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- (S) SANITARY MANHOLE
- (D) STORM MANHOLE
- CATCH BASIN
- ▲ VAPOR SAMPLE
- GEOPROBE GW SAMPLE LOCATION

ND = not detected
NS = no sample

2016 PERC Concentrations (last sample) in groundwater (ug/L)

FIGURE 4
MONITORING WELL AND SOIL BORING LOCATIONS
FORMER QUICK CLEANERS AND FORMER HANGERS CLEANERS
MARSHFIELD, WI

MSA PROFESSIONAL SERVICES
TRANSPORTATION · MUNICIPAL
DEVELOPMENT · ENVIRONMENTAL
1835 N. Stevens St. Rhinelander, WI 54501
715-362-3244 1-800-844-7854 Fax: 715-362-4118

DRAWN BY CAR | DATE 10/14 | SHEET X of X
CHECKED BY JE | SCALE AS SHOWN | FILE NO. 10649000f4

Laboratory Results - Groundwater
Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	**cis-1,2-Dichloro-ethene**	**trans-1,2-Dichloro-ethene**	Ethylbenzene	Isopropyl-benzene	p-Isopropyl-toluene	Naphthalene	n-Propyl-benzene	1,1,1,2-Tetra-chloroethane	1,1,2,2-Tetra-chloroethane	**Tetrachloro-ethene**	Toluene	1,1,1-Trichloro-ethane	1,1,2-Tri-chloroethane	**Trichloro-ethene**	1,2,4-Trimethyl-benzene	1,3,5-Tri-methyl-benzene	m&p Xylene	o-Xylene	**Vinyl Chloride**	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5		6	3	5	7	70	100	700			100		70	0.2	5	1000	200	5	5	480	480	10000	10000	0.2	
NR 140 PAL	200	0.5			200	0.5		0.6	0.3	0.5	0.7	7	20	140			10		7	0.02	0.5	200	40	0.5	0.5	96	96	1000	1000	0.02	
MW-5	Screened from 1258-1273																													TOC=1287.54
25-Mar-08	<7.0	<0.16	<0.24	<0.29	2.1	<0.40	<0.30	<0.22	<0.30	<0.40	<0.40	<0.40	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	**20**	<0.20	<0.60	<0.50	<0.15	<0.24	<0.19	<0.50	<0.50	<0.15	1265.15
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	<0.40	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	**83**	<0.20	<0.60	<0.50	0.25	<0.24	<0.19	<0.50	<0.50	<0.15	1265.89
10-May-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**30**	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*		<0.20	1266.76
1-Sep-10	Not sampled, groundwater level only																														1271.62
14-Dec-11	Not sampled, groundwater level only																														1267.42
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**63**	<0.30	<0.29	<0.40	<0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1266.68
18-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**260**	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	1269.79
MW-6	Screened from 1245-1260																													TOC=1277.03
10-May-10		<0.40	<0.40	<0.50		<1.6	<0.40	<0.40	<0.60	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<0.40	<0.50	<1.0	<0.50	<0.40	**150**	<1.0	<1.0	<0.50	1.1	<0.40	<0.40	<1.0*		<0.40	1262.31
1-Sep-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	<0.50	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*		<0.20	1265.53
13-Dec-11		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	<0.50	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*		<0.20	1262.95
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	0.36	<0.30	<0.29	<0.40	<0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1263.34
18-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	1.1	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**140**	<0.15	<0.38	<0.35	1.1	<0.36	<0.25	<0.22		<0.20	1264.69
PZ-6	Screened from 1230-1235																													TOC=1276.85
10-May-10		<0.40	<0.40	<0.50		<1.6	<0.40	<0.40	<0.60	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<0.40	<0.50	<1.0	<0.50	<0.40	**100**	5.7	<1.0	<0.50	<0.40	<0.40	<0.40	<1.0*		<0.40	1260.74
1-Sep-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**130**	<0.50	<0.50	<0.25	0.21	<0.20	<0.20	<0.50*		<0.20	1264.14
13-Dec-11		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**150**	<0.50	<0.50	<0.25	0.27	<0.20	<0.20	<0.50*		<0.20	1262.13
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**230**	<0.30	<0.29	<0.40	<0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1262.75
18-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**320**	<0.15	<0.38	<0.35	0.53	<0.36	<0.25	<0.22		<0.20	1264.16
MW-7	Screened from 1244-1259																													TOC=1268.64
12-May-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	4.1	<0.50	<0.50	<0.25	<0.20	0.23	<0.20	<0.50*		<0.20	1257.50
1-Sep-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**43**	<0.50	<0.50	<0.25	0.22	<0.20	<0.20	<0.50*		<0.20	1259.08
13-Dec-11		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**7.9**	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*		<0.20	1257.33
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**16**	<0.30	<0.29	<0.40	<0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1258.02
19-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**40**	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	1258.43
PZ-7	Screened from 1229-1234																													TOC=1268.79
12-May-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**24**	<0.50	<0.50	<0.25	<0.20	0.28	<0.20	<0.50*		<0.20	1250.49
1-Sep-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	4.4	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*		<0.20	1259.06
13-Dec-11		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**56**	<0.50	<0.50	<0.25	0.33	<0.20	<0.20	<0.50*		<0.20	1256.92
5-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	0.40	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**91**	<0.30	<0.29	<0.40	0.61	<0.40	<0.40	<0.60	<0.30	<0.18	1256.77
19-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**120**	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	1258.06
MW-8	Screened from 1247-1262																													TOC=1271.24
12-May-10		**57**	<3.2	<4.0		<13	<3.2	<3.2	<4.8	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<4.0	<8.0	<4.0	<3.2	**910**	<8.0	<8.0	<4.0	**26**	<3.2	<3.2	<8.0*		<3.2	1256.44
1-Sep-10		<2.0	<2.0	<2.5		<8.0	<2.0	<2.0	<3.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.5	<5.0	<2.5	<2.0	**440**	<5.0	<5.0	<2.5	**6.8**	<2.0	<2.0	<5.0*		<2.0	1258.02
14-Dec-11		**19**	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	3.8	1.2	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**590**	<0.50	<0.50	<0.25	**16**	<0.20	<0.20	<0.50*		<0.20	1256.57
4-Dec-13	<2.9	3.5	<0.40	0.32	<0.50	<0.27	<0.28	<0.23	<0.27	0.69	<0.24	3.8	3.1	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**440**	<0.30	<0.29	<0.40	**17**	<0.40	<0.40	<0.60	<0.30	<0.18	1256.61
19-Jul-16		4.9	<0.78	<0.80		<0.77	<0.77	<0.74	<0.64	<0.78	<0.78	6.7	<0.70	<0.37	<0.77	<0.72	<0.67	<0.83	<0.92	<0.80	**670**	<0.30	<0.76	<0.70	**14**	<0.72	<0.51	<0.44		<0.41	1257.31
PZ-8	Screened from 1230-1235																													TOC=1271.55
12-May-10		<8.0	<8.0	<10		<32	<8.0	<8.0	<12	<20	<20	<20	<20	<20	<8.0	<8.0	<10	<20	<10	<8.0	**3300**	<20	<20	<10	**12**	<8.0	<8.0	<20*		<8.0	1256.60
1-Sep-10		<8.0	<8.0	<10		<32	<8.0	<8.0	<12	<20	<20	<20	<20	<20	<8.0	<8.0	<10	<20	<10	<8.0	**3900**	<20	<20	<10	<8.0	<8.0	<8.0	<20*		<8.0	1258.13
14-Dec-11		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	14	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**3300**	<0.50	<0.50	<0.25	**8.8**	<0.20	<0.20	<0.50*		<0.20	1256.91
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	21	0.45	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**4600**	<0.30	<0.29	<0.40	**11**	<0.40	<0.40	<0.60	<0.30	<0.18	1256.75
19-Jul-16		<0.73	<1.9	<2.0		<1.9	<1.9	<1.9	<1.6	<2.0	<2.0	19	<1.7	<0.92	<1.9	<1.8	<1.7	<2.1	<2.3	<2.0	**2700**	<0.76	<1.9	<1.8	**7.2**	<1.8	<1.3	<1.1		<1.0	1257.57

Laboratory Results - Groundwater
Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	**cis-1,2-Dichloro-ethene**	**trans-1,2-Dichloro-ethene**	Ethylbenzene	Isopropyl-benzene	p-Isopropyl-toluene	Naphthalene	n-Propyl-benzene	1,1,1,2-Tetra-chloroethane	1,1,2,2-Tetra-chloroethane	**Tetrachloro-ethene**	Toluene	1,1,1-Trichloro-ethane	1,1,2-Tri-chloroethane	**Trichloro-ethene**	1,2,4-Trimethyl-benzene	1,3,5-Tri-methyl-benzene	m&p Xylene	o-Xylene	**Vinyl Chloride**	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5		6	3	5	7	70	100	700			100		70	0.2	5	1000	200	5	5	480	480	10000	10000	0.2	
NR 140 PAL	200	0.5			200	0.5		0.6	0.3	0.5	0.7	7	20	140			10		7	0.02	0.5	200	40	0.5	0.5	96	96	1000	1000	0.02	
MW-9																															TOC=1272.31
13-Dec-11		<0.20	<0.20	<0.25		<0.80	<0.20	0.69	<0.30	<0.50	<0.50	1.6	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**380**	<0.50	<0.50	<0.25	0.97	<0.20	<0.20	<0.50*		<0.20	1257.47
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	0.33	<0.27	<0.30	<0.24	0.69	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**230**	<0.30	<0.29	<0.40	0.55	<0.40	<0.40	<0.60	<0.30	<0.18	1258.32
19-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	1.6	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**230**	<0.15	<0.38	<0.35	0.80	<0.36	<0.25	<0.22		<0.20	1258.87
PZ-9																															TOC=1272.44
13-Dec-11		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	4.7	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	**2100**	<0.50	<0.50	<0.25	3.1	<0.20	<0.20	<0.50*		<0.20	1258.69
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	6.8	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**2300**	<0.30	<0.29	<0.40	3.8	<0.40	<0.40	<0.60	<0.30	<0.18	1258.43
19-Jul-16		<0.73	<1.9	<2.0		<1.9	<1.9	<1.9	<1.6	<2.0	<2.0	7.1	<1.7	<0.92	<1.9	<1.8	<1.7	<2.1	<2.3	<2.0	**1200**	<0.76	<1.9	<1.8	2.9	<1.8	<1.3	<1.1		<1.0	1259.32
Former Hangers Cleaners Wells																															
MW-1	Screened from 1250-1265																														TOC=1280.64
1-Feb-05												<40					<20				**3200**	<16			**24**	<16	<16	<40			1258.85
12-Jan-06		<100	<120	<110		<88	<110	<120	<100	<82	<87	<90	<88	<88	<93	<120	<180	<110	<100	<97	**3900**	<100	<100	<99	<93	<110	<110	<180	<110	<99	1260.24
19-Aug-08	<700	<16	<24	<29	<50	<40	<30	<22	<30	<30	<40	**110**	<50	<28	<20	<17	<60	<20	<60	<14	**2200**	<20	<60	<50	**67**	<24	<19	<50	<50	<15	1262.54
11-May-10		<8.0	<8.0	<10		<32	<8.0	<8.0	<12	<20	<20	**75**	<20	<20	<8.0	<8.0	<10	<20	<10	<8.0	**2700**	<20	<20	<10	**55**	<8.0	<8.0	<20*		<8.0	1261.66
1-Sep-10	Not sampled, groundwater level only																														1266.17
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	**79**	12	<0.30	<0.30	<0.40	0.31	<0.40	<0.40	<0.30	**780**	<0.30	<0.29	<0.40	**43**	<0.40	<0.40	<0.60	<0.30	<0.18	1263.00
23-Jul-14	<35	<1.3	<2.0	<2.5	<2.0	<2.0	<2.5	<1.4	<3.0	<1.0	<1.2	25	2.6	<2.5	<2.0	<2.5	<2.5	<2.0	<3.0	<2.5	**300**	<2.5	<1.3	<1.1	**18**	<3.0	<2.5	<5.0	<2.5	<0.90	1263.74
18-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	**85**	7.8	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**390**	<0.15	<0.38	<0.35	**38**	<0.36	<0.25	<0.22		<0.20	1264.83
MW-1P	Screened from 1230-1235																														TOC=1279.87
12-Jan-06		<250	<300	<280		<220	<280	<290	<250	<200	<220	<230	<220	<220	<230	<290	<460	<280	<260	<240	**9000**	<260	<260	<250	<230	<290	<270	<460	<280	<250	1259.87
19-Aug-08	<3500	<80	<120	<150	<250	<200	<150	<110	<150	<150	<200	<200	<250	<140	<100	<85	<300	<100	<300	<70	**11000**	<100	<300	<250	<75	<120	<95	<250	<250	<75	1261.76
11-May-10		<40	<40	<50		<160	<40	<40	<60	<100	<100	<100	<100	<100	<40	<40	<50	<100	<50	<40	**12000**	<100	<100	<50	<40	<40	<40	<100*		<40	1260.95
1-Sep-10	Not sampled, groundwater level only																														1264.51
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	63	1.5	<0.30	<0.30	<0.40	<0.30	<0.40	0.41	<0.30	**7200**	<0.30	<0.29	<0.40	**23**	<0.40	<0.40	<0.60	<0.30	**0.25**	1262.09
23-Jul-14	<700	<25	<40	<50	<40	<40	<50	<27	<60	<20	<23	**70**	<20	<50	<40	<50	<50	<50	<60	<50	**7400**	<50	<25	<21	**28**	<60	<50	<100	<50	<18	1262.98
18-Jul-16		<1.5	<3.9	<4.0		<3.8	<3.9	<3.7	<3.2	<3.9	<3.9	**210**	11	<1.8	<3.9	<3.6	<3.4	<4.1	<4.6	<4.0	**15000**	<1.5	<3.8	<3.5	**63**	<3.6	<2.5	<2.2		<2.0	1263.90
MW-2	Screened from 1249-1264																														TOC=1279.02
1-Feb-05												**120**					<12				**2300**	<10			**21**	<10	<10	<25			1260.02
12-Jan-06		<40	<48	<44		<35	<45	<46	<40	<33	<41	**80**	<35	<35	<37	<46	<73	<44	<42	<39	**1500**	<41	<42	<39	<37	<46	<43	<73	<45	<39	1260.52
19-Aug-08	<350	<8.0	<12	<15	<25	<20	<15	<11	<15	<15	<20	**110**	<25	<14	<10	<8.5	<30	<10	<30	<7.0	**1100**	<10	<30	<25	**18**	<12	<9.5	<25	<25	<7.5	1260.38
11-May-10		<0.80	<0.80	<1.0		<3.2	<0.80	<0.80	<1.2	<2.0	<2.0	**29**	<2.0	<2.0	<0.80	<0.80	<1.0	<2.0	<1.0	<0.80	**240**	<2.0	<2.0	<1.0	**5.1**	<0.80	<0.80	<2.0*		<0.80	1261.91
1-Sep-10	Not sampled, groundwater level only																														1265.56
14-Dec-11	Not sampled, groundwater level only																														1262.11
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	**62**	0.97	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**92**	<0.30	<0.29	<0.40	**9.6**	<0.40	<0.40	<0.60	<0.30	<0.18	1263.28
23-Jul-14	<7.0	<0.25	<0.40	<0.50	<0.40	<0.40	<0.50	<0.27	<0.60	<0.20	<0.23	**60**	1.0	<0.50	<0.40	<0.50	<0.50	<0.40	<0.60	<0.50	**73**	<0.50	<0.25	<0.21	**10**	<0.60	<0.50	<1.0	<0.50	<0.18	1263.78
18-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	**88**	2.5	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**68**	<0.15	<0.38	<0.35	**12**	<0.36	<0.25	<0.22		<0.20	1264.75
MW-3	Screened from 1253-1268																														TOC=1277.32
1-Feb-05												<0.50					0.62				<0.50	0.61			<0.20	1.4	0.34	1.4			1259.63
12-Jan-06		<0.20	<0.24	<0.22		<0.18	<0.23	<0.23	<0.20	<0.16	<0.17	<0.18	<0.18	<0.18	<0.19	<0.23	<0.37	<0.22	<0.21	<0.19	<0.16	0.33	<0.21	<0.20	<0.19	<0.23	<0.21	<0.37	<0.23	<0.20	1259.93
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	<0.40	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	<0.40	<0.20	<0.60	<0.50	<0.15	<0.24	<0.19	<0.50	<0.50	<0.15	1260.52
11-May-10		<0.20	<0.20	<0.25		<0.80	<0.20	<0.20	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.25	<0.50	<0.25	<0.20	<0.50	<0.50	<0.50	<0.25	<0.20	<0.20	<0.20	<0.50*		<0.20	1261.47
1-Sep-10	Not sampled, groundwater level only																														1265.35
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	<0.29	<0.30	<0.29	<0.40	<0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1262.38
23-Jul-14	<7.0	<0.25	<0.40	<0.50	<0.40	<0.40	<0.50	<0.27	<0.60	<0.30	<0.24	<0.21	<0.20	<0.50	<0.40	<0.50	<0.50	<0.40	<0.60	<0.50	<0.24	<0.50	<0.25	<0.21	<0.24	<0.60	<0.50	<1.0	<0.50	<0.18	1264.06
18-Jul-16		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	<0.37	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	1265.18

Laboratory Results - Groundwater
Former Quick Cleaners, Former Hangers Cleaners, and Associated Sales, Marshfield, WI

All Concentrations are in ug/L	Acetone	Benzene	n-Butyl-benzene	sec-Butyl-benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroform	Chloromethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	**cis-1,2-Dichloro-ethene**	**trans-1,2-Dichloro-ethene**	Ethylbenzene	Isopropyl-benzene	p-Isopropyl-toluene	Naphthalene	n-Propyl-benzene	1,1,1,2-Tetra-chloroethane	1,1,2,2-Tetra-chloroethane	**Tetrachloro-ethene**	Toluene	1,1,1-Trichloro-ethane	1,1,2-Tri-chloroethane	**Trichloro-ethene**	1,2,4-Trimethyl-benzene	1,3,5-Tri-methyl-benzene	m&p Xylene	o-Xylene	**Vinyl Chloride**	Water Level (feet MSL)
NR 140 ES	1000	5			1000	5		6	3	5	7	70	100	700			100		70	0.2	5	1000	200	5	5	480	480	10000	10000	0.2	
NR 140 PAL	200	0.5			200	0.5		0.6	0.3	0.5	0.7	7	20	140			10		7	0.02	0.5	200	40	0.5	0.5	96	96	1000	1000	0.02	
MW-4	Screened from 1252-1267																														TOC=1281.76
12-Jan-06		<200	<240	<220		<180	<230	<230	<200	<160	<170	<180	<180	<180	<190	<230	<370	<220	<210	<190	**6800**	<210	<210	<200	<190	<230	<210	<370	<230	<200	1262.65
25-Aug-08	<350	<8.0	<12	<15	<25	<20	<15	<11	<15	<15	<20	<20	<25	<14	<10	<8.5	<30	<10	<30	<7.0	**1300**	<10	<30	<25	<7.5	<12	<9.5	<25	<25	<7.5	1262.87
11-May-10		<0.40	<0.40	<0.50		<1.6	<0.40	<0.40	<0.60	<1.0	<1.0	1.3	<1.0	<1.0	<0.40	<0.40	<0.50	<1.0	<0.50	<0.40	**120**	<1.0	<1.0	<0.50	0.68	<0.40	<0.40	<1.0		<0.40	1264.22
1-Sep-10	Not sampled, groundwater level only																														1268.65
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	5.5	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**310**	<0.30	<0.29	<0.40	2.3	<0.40	<0.40	<0.60	<0.30	<0.18	1265.61
23-Jul-14	<7.0	<0.25	<0.40	<0.50	<0.40	<0.40	<0.50	<0.27	<0.60	<0.20	<0.23	0.58	<0.20	<0.50	<0.40	<0.50	<0.50	<0.40	<0.60	<0.50	**44**	<0.50	<0.25	<0.21	0.34	<0.60	<0.50	<1.0	<0.50	<0.18	1264.14
18-Jul-16		<0.29	<0.78	<0.80		<0.77	<0.77	<0.74	<0.64	<0.78	<0.78	*21*	<0.70	<0.37	<0.77	<0.72	<0.67	<0.83	<0.92	<0.80	**1200**	<0.30	<0.76	<0.70	**8.0**	<0.72	<0.51	<0.44		<0.41	1267.18
Associated Sales Wells																															
MW-3	Screened from 1241-1251																														TOC=1270.57
19-Aug-08	<7.0	<0.16	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	<0.30	<0.30	<0.40	9.7	<0.50	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	**1300**	<0.20	<0.60	<0.50	**5.0**	<0.24	<0.19	<0.50	<0.50	<0.15	1256.10
11-May-10		<4.0	<4.0	<5.0		<16	<4.0	<4.0	<6.0	<10	<10	<10	<10	<10	<4.0	<4.0	<5.0	<10	<5.0	<4.0	**1200**	<10	<10	<5.0	**7.0**	<4.0	<4.0	<10*		<4.0	1256.45
1-Sep-10		<0.40	<0.40	<0.50		<1.6	<0.40	<0.40	<0.60	<1.0	<1.0	11	<1.0	<1.0	<0.40	<0.40	<0.50	<1.0	<0.50	<0.40	**1200**	<1.0	<1.0	<0.50	4.9	<0.40	<0.40	<1.0*		<0.40	1257.88
4-Dec-13	<2.9	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	12	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	**510**	<0.30	<0.29	<0.40	4.1	<0.40	<0.40	<0.60	<0.30	<0.18	1256.50
18-Jul-16		<0.29	<0.78	<0.80		<0.77	<0.77	<0.74	<0.64	<0.78	<0.78	32	<0.70	<0.37	<0.77	<0.72	<0.67	<0.83	<0.92	<0.80	**1100**	<0.30	<0.76	<0.70	**8.8**	<0.72	<0.51	<0.44		<0.41	1257.40
MW-6	Screened from 1245-1255																														TOC=1269.28
19-Aug-08	<7.0	0.63	<0.24	<0.29	<0.50	<0.40	<0.30	<0.22	0.38	<0.30	<0.40	4.0	5.4	<0.28	<0.20	<0.17	<0.60	<0.20	<0.60	<0.14	**400**	<0.20	<0.60	<0.50	**11**	<0.24	<0.19	<0.50	<0.50	<0.15	1254.91
11-May-10		<1.6	<1.6	<2.0		<6.4	<1.6	<1.6	<2.4	<4.0	<4.0	<4.0	<4.0	<4.0	<1.6	<1.6	2.6	<4.0	<2.0	<1.6	**310**	<4.0	<4.0	<2.0	**4.8**	<1.6	<1.6	<4.0*		<1.6	1255.27
1-Sep-10	Not sampled, groundwater level only																														1256.38
4-Dec-13	<0.29	<0.30	<0.40	<0.30	<0.50	<0.27	<0.28	<0.23	<0.27	<0.30	<0.24	<0.30	<0.30	<0.30	<0.30	<0.40	<0.30	<0.40	<0.40	<0.30	3.9	<0.30	<0.29	<0.40	<0.50	<0.40	<0.40	<0.60	<0.30	<0.18	1255.33
18-Jul-16		4.8	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	13	11	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**550**	<0.15	<0.38	<0.35	**16**	<0.36	<0.25	<0.22		<0.20	1255.95
Grab Geoprobe Groundwater Samples, October 17, 2016																															
TW-1		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	<0.37	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	
TW-3		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	1.1	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**120**	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	
TW-4		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	1.1	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**12**	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	
TW-5		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	<0.32	<0.39	<0.39	2.6	1.4	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	**310**	<0.15	<0.38	<0.35	4.1	<0.36	<0.25	<0.22		<0.20	
TW-6		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	0.99	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<0.34	<0.41	<0.46	<0.40	0.73	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	
TW-7		<0.15	<0.39	<0.40		<0.38	<0.39	<0.37	1.1	<0.39	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	11	<0.41	<0.46	<0.40	<0.37	<0.15	<0.38	<0.35	<0.16	<0.36	<0.25	<0.22		<0.20	

Values in BOLD exceed the NR 140 enforcement standard.

TOC = top of casing elevation in feet mean sea level.

* = value is for total xylenes

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quick Cleaners	213391	TW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darin Prentice Geiss	10/17/2016	10/17/2016	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-1	Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section 8, T 25 N, R 3 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	73 - Wood		Marshfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	Grass surface at 206 N. Cedar Street, topsoil Brown Silty Clay with gravel (glacial till)	CL									
			8	Reddish-brown Silty Clay, little gravel	CL									
			12	Medium grained reddish brown sand	SP		▼							
				Brown Silty Clay, soft, looks wet	CL									
			16	Grayish-brown silty clay, compact, hard, small gravel, some sand	CL									
			18	Brown Silty Clay, compact, hard, little to no gravel	CL									
			20	EOB at 20 feet, set 10 foot screen for temporary well. Came back after a couple hours and water was present, pumped two liters and sampled.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 608-356-2771
Jayne Englebert	MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913	Fax: 608-356-2770

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quick Cleaners	213391	TW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darin Prentice Geiss	10/17/2016	10/17/2016	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-2	Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section 8, T 25 N, R 3 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	73		Marshfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	Drilled on gravel edge of raod adjacent to 308 N. Cedar Street. Gravel road base.	GW									
			4	Grayish brown silty clay	CL									
				Brown Silty Clay, soft, moist	CL									
			6	Brown Silty Clay, hard, compact, with gravel										
			8		CL									
			10											
			12	Brown Silty Clay, hard, compact, less gravel than above otherwise the same, no water at end of sampling, set temporary well and will check later			▼							
			14		CL									
			16	No water at end of day, pulled temporary well and abandoned with bentonite										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 608-356-2771
Jayne Eichbert	MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913	Fax: 608-356-2770

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quick Cleaners	213391	TW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darin Prentice Geiss	10/17/2016	10/17/2016	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-3	Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section 8, T 25 N, R 3 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	73		Marshfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	Grass surface, then brown fill sand and gravel	GW									
			4	Compact brown Silty clay, occ. gravel, occ. sand partings	CL									
			6											
			8	Brown Silty Clay, underlain from approx. 7-8 feet by brown silt - wet.	CL									
			10											
			12	Brown Silt, wet	SM		▼							
			14											
			16	Set temp. well screen from 3 to 13 feet at end of drilling, 3 feet of water in hole, pumped 5 gallons of water with peristaltic pump, still slightly silty but collected sample										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Jayne Englebert	MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913	Fax: 608-356-2770

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quick Cleaners	213391	TW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darin Prentice Geiss	10/17/2016	10/17/2016	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-4	Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section 8, T 25 N, R 3 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	73		Marshfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Edge of driveway, grass surface, then topsoil										
			2	Brown Silty Clay with sand and gravel (glacial till). Very sticky by 10 feet. No water at end of drilling, set temp well at 6 to 16 feet.	CL		▼							
			4											
			6											
			8											
			10											
			12											
			14											
			16	Sampled later, pumped 2 liters of water with peristaltic pump then sampled.										

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Signature	Firm	Tel: 608-356-2771
Jaycee Englebert	MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913	Fax: 608-356-2770

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quick Cleaners	213391	TW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darin Prentice Geiss	10/17/2016	10/17/2016	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-5	Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section 8, T 25 N, R 3 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	73		Marshfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	In grass terrace around 2 feet from curb. Fill material from street.										
			4	No recovery, fill?										
			8	Yellowish brown Silty Clay with gravel and sand (glacial till), abundant gravel and sand, wet at 12 feet.	CL		▼							
			18	Silt, little clay, no gravel, wet	SM									
			20	pumped 2 liters with peristaltic pump and sampled										

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Jayne Eglebert	MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913	Fax: 608-356-2770

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quick Cleaners	213391	TW-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darin Prentice Geiss	10/17/2016	10/17/2016	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-6	Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section 8, T 25 N, R 3 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	73		Marshfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Grass surface, edge of alley/street.										
			2	Brown Silty Clay with gravel and some sand (glacial till).	CL		▼							
			4											
			6											
			8											
			10											
			12											
			14	Silt	SM									
			16	Water at end of drilling, pumped two gallons until clear with pump, and sampled.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jayne Englebert Firm MSA Professional Services, Inc.
1230 South Boulevard Baraboo, WI 53913
Tel: 608-356-2771
Fax: 608-356-2770

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quick Cleaners	213391	TW-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darin Prentice Geiss	10/17/2016	10/17/2016	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TW-7	Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section 8, T 25 N, R 3 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	73		Marshfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	At edge of alley/sidewalk, grass surface then topsoil										
			2	Brown Silty Clay, some gravel										
			4		CL									
			6											
			8	Same as above, but compact, hard, with gravel and sand, no silt zone in this boring, pumped one gallon, slowly, with peristaltic pump, then collected sample										
			10											
			12		CL		▼							
			14											
			16											

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Jayne Eglebert	MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913	Fax: 608-356-2770

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