



October 16, 2019

Phil Richard submitted by email: [Philip.Richard@Wisconsin.gov](mailto:Philip.Richard@Wisconsin.gov)  
Wisconsin Dept. of Natural Resources  
875 S 4th Avenue  
Park Falls, WI 54552-1130

RE: Change Order #11 – Additional Direct Push Groundwater Sampling and Monitoring Well Sampling  
For: The Laundry Basket, 300 S. Main Street, Luck, WI  
WDNR BRRTS No. 02-49-544893

Dear Mr. Richard:

Based on the recommendations included in the MSA *Status Report – Groundwater Sampling and Direct Push Groundwater Sampling* report submitted to the Wisconsin Department of Natural Resources (WDNR) on August 28, 2019 and consultation with the WDNR project manager, additional vertical delineation of the solvent plume is necessary near the MW-13, MW-14, MW-15 and MW-10LT well nests and additional horizontal and vertical delineation is necessary north of MW-12 and west of MW-10. Considering the uncertainty regarding the vertical and horizontal extent of the plume, MSA is proposing a direct push discrete groundwater sampling event to coincide with a comprehensive groundwater sampling event that would include sampling all wells with current or historical detections of chlorinated solvents and several sentinel wells. The combined data from the discrete groundwater sampling, combined with a full round of groundwater sampling, should provide a comprehensive overview of the current extent and magnitude of the plume in addition to providing indications of plume expansion or stability.

In order to more fully delineate both the vertical and horizontal extent of the plume in the area of monitoring wells MW-13/13D, MW-14 and MW-15/15D, MSA is proposing the completion of discrete, direct push groundwater sampling at four locations between West Street and the Gandy Dancer Trail between West 1<sup>st</sup> Avenue and East 3<sup>rd</sup> Avenue in the Goldstar Cooperative and Luck Fire Association properties and one additional boring to the north of MW-10 in the Luck Senior Citizens property. Access agreements for each location will be obtained prior to drilling and a private utility locate will be conducted at each location prior to the advancement of any borings. At each location, a discrete groundwater sample will be collected from a shallow interval (approximately 5-10 feet below land surface (bls)), a middle interval (approximately 25-30 feet bls), a deep interval (approximately 45-50 feet bls) and a deeper interval (approximately 65-70 feet bls). Each boring will be advanced separately, drilling tooling will be decontaminated between each boring and borings will be abandoned according to Wisconsin Administrative Code. A total of twenty (20) groundwater samples and two (2) duplicate samples will be collected from the discrete intervals and will be analyzed for volatile organic compounds (VOCs) using EPA Method

1230 South Boulevard  
Baraboo, WI 53913

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Mr. Phil Richard, Wisconsin Department of Natural Resources  
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8260. The proposed boring/sampling locations are shown on the attached figure. The figure legend provides a description of the sample intervals proposed at each location.

In addition to the delineation efforts to the west of MW-10 and north of monitoring well MW-12, MSA proposes additional vertical delineation of the plume near several of the existing monitoring wells and monitoring well nests. Discrete groundwater samples from the deep interval (approximately 45-50 feet bls) and the deeper interval (65-70 feet bls) will be collected adjacent to the MW-13, MW-14 and MW-15 monitoring well nests and adjacent to monitoring well MW-10. A discrete groundwater sample will also be collected from the deepest interval (approximately 65-70 feet bls) adjacent to monitoring well nest MW-10LT. A total of nine (9) groundwater samples and one (1) duplicate sample will be collected from the discrete intervals and will be analyzed for volatile organic compounds (VOCs) using EPA Method 8260 and two duplicate samples and one trip blank will also be analyzed for VOCs using EPA Method 8260.

In an attempt to characterize the deeper lithology of the site, a soil lithology boring will be advanced in the vicinity of monitoring well MW-15. The boring will be advanced in five foot intervals between 40 and 70 feet below land surface using a discrete soil sampler. Soil samples from each interval will be collected and classified using the National Resource Conservation Service (NRCS) Universal Soil Classification System. Soil sampling results will be provided on a boring log and included with the discrete sampling results.

Coincident with the direct push groundwater sampling, groundwater samples will be collected from all of the monitoring wells listed below:

- Laundry Basket source area wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, PZ-1, PZ-6, PZ-7, PZ-8 and PZ-9;
- Equity Co-op wells MW-2Eq, MW-4AEq, MW-5Eq, MW-7Eq, MW-8Eq and MW-9Eq;
- St. Croix Hardwoods wells MW-12, MW-13/MW-13D, MW-14, MW-15S/MW-15D, MW-16S/MW-16D and MW-17/MW-17-40/MW-17-70; and
- Luck Telephone well nests at MW-6LT, MW-7LT, and MW-10LT.

All forty two (42) wells will be sampled for VOCs using EPA Method 8260 and four (4) duplicates and a trip blank will also be collected for a total of forty seven (47) samples. The results from this sampling will be combined with results from the monitoring well groundwater sampling and presented in a letter report to the WDNR including updated tables and figures. A statistical analysis of each monitoring well (Mann-Kendall or similar) will be also be included in the letter report in order to determine plume stability.

#### Cost Estimate for Change Order #11

The attached DERF Site Investigation Bid Sheets include the costs to complete the above described activities and totals \$14,100.00 consultant, \$6,210.00 contractor costs (drilling), \$5,520.00 contractor costs (laboratory), and \$706.00 miscellaneous costs, which totals \$26,536.00.

The following presents a summary of the budget information for this project:

Mr. Phil Richard, Wisconsin Department of Natural Resources  
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	<u>Consulting</u>	<u>Contractor</u>	<u>Budget</u>	<u>Total Budget</u>
Initial Budget, April 26, 2011	\$54,900.00	\$41,400.00	\$96,300.00	\$96,300.00
Change Order #1, August 31, 2011	\$390.00	\$700.00	\$1,090.00	\$97,390.00
Change Order #2, January 31, 2013	\$10,113.00	\$6,900.00	\$17,013.00	\$114,403.00
Change Order #3, January 16, 2014	\$12,012.00	\$6,208.00	\$18,220.00	\$132,623.00
Change Order #4, February 4, 2015	\$3,185.00	\$4,265.00	\$7,450.00	\$140,073.00
Change Order #5, March 1, 2016	\$15,105.00	--	\$15,105.00	\$155,178.00
Change Order #6, January 23, 2017	\$18,190.00	\$7,125.00	\$25,315.00	\$180,493.00
Change Order #7, August 30, 2017	\$5,810.00	\$2,984.00	\$8,794.00	\$189,287.00
Change Order #8, February 26, 2018	\$17,780.00	\$14,040.00	\$31,820.00	\$221,107.00
Change Order #9, November 1, 2018	\$2,060.00	\$474.00	\$2,534.00	\$223,641.00
Change Order #10, May 17, 2019	\$7,360.00	\$6,780.00	\$14,090.00	\$237,731.00
Change Order #11, October 16, 2019	\$14,806.00	\$11,730.00	\$26,536.00	\$264,267.00

Please contact me with questions.

Sincerely,

MSA Professional Services, Inc.



Mark Davidson  
Sr. Project Hydrogeologist

Cc: Lois Baldwin, Luck, WI  
Debra Sylvester (via email)  
Erica Klingfus, MSA (via email)

Enclosures: Proposed Drilling Location Figure

## DERF Site Investigation Bid Summary Consultant Selection Cover Sheet

Notice: Use this form to notify the Department of Natural Resources of the consultant you are selecting to conduct a site investigation and to submit and summarize the bids required in the Dry Cleaner Environmental Response Fund (DERF) Program. This form is authorized under s. 292.65, Wis. Stats. and s. NR 169.23, Wis. Adm. Code. Completion of this form is mandatory for any person applying for DERF reimbursement. Persons who do not submit a completed form will not be eligible for reimbursement under DERF. Personal information will be used to manage the DERF program, and be made available to requesters under Wisconsin's Open Records laws (ss. 19.32-19.39, Wis. Stats.) and requirements.

Complete the following information and submit it to your DNR regional project manager. Copy this form as necessary.

### Site Information

<b>Site name:</b> The Laundry Basket	<b>Facility Name:</b> The Laundry Basket	<b>BRRTS #</b> 02-49-544893
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### Consultant Selected

<b>Consultant Name:</b> MSA Professional Services	<b>Consultant Address:</b> 1230 South Boulevard, Baraboo, WI 53913
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### Summary of Costs:

Consultant Name: MSA Professional Services		Consultant Name:	
Consulting costs:	<b>\$14,100.00</b>	Consulting costs:	
Drilling costs:	<b>\$6,210.00</b>	Drilling costs:	
Analytical costs:	<b>\$5,520.00</b>	Analytical costs:	
Miscellaneous costs:	<b>\$706.00</b>	Miscellaneous costs:	
<b>Total Costs:</b>	<b>\$26,536.00</b>	<b>Total Costs:</b>	

<b>Consultant Name:</b>	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
<b>Total Costs:</b>	

<b>Optional 4th bid information:</b>	
<b>Consultant Name:</b>	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
<b>Total Costs:</b>	

Justification for Selection:

Change Order #11 to conduct discrete groundwater sampling and monitoring well sampling to determine comprehensive extent and magnitude of the plume

### Applicant Information and Certification

I certify that the information contained above is true and correct to the best of my knowledge.

Applicant Name		Date	
517 S. Fourth Street	Luck	WI	54853-9045

Signature

### Department Use Only

Project Manager Approval Signature	Phone Number	Date
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If not approved, reason for non-approval:

**DERF Site Investigation Bid Sheet  
Consultant Bid Summary**

Form 4400-233 (R 4/04) Page 2 of 6

**Site Information**

Site Name **The Laundry Basket, Luck WI**

Consultant Name **MSA Professional Serivces** Applicant Name **Lois and Ardell Baldw**

**Bid Summary**

<b>Drilling Costs Total =</b>	<b>\$ 6,210.00</b>
<b>Analytical Costs Total =</b>	<b>\$ 5,520.00</b>
<b>Consulting Costs Total =</b>	<b>\$ 14,100.00</b>
<b>Misc Costs Total =</b>	<b>\$ 706.00</b>
<b>Grand Total =</b>	<b>\$ 26,536.00</b>

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

16-Oct-19



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

Consultant Name:  
 Site Name:  
 BRRTS #:  
 Date:

## DERF Site Investigation Bid Sheet Drilling Costs

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Drilling Costs						
Task	Interval	Number of Borings or Wells	Number of Days	Total Number of Feet	Cost/feet, Day or Well	Total Cost
Well installation and Completion						
2 inch PVC	_1__ ft to _20__ ft					
1 inch PVC (GeoProbe)	___ ft to ___ ft					\$ -
	___ ft to ___ ft					\$ -
	> ___ ft					\$ -
Decontamination Costs						
Mobilization Costs						
Hollow Stem Auger Drilling 2.25 ID						
2 1/4 Augers	0 to 40 ft					\$ -
	40 to 80 ft					\$ -
Bore Abandonment	per ft					\$ -
						\$ -
Decontamination Costs						
Mobilization / per diem Costs						
Hollow Stem Auger Drilling 4.25 ID						
4 1/4 Augers	0 to 40 ft					
	40 to 80 ft					\$ -
Bore Abandonment	per ft					\$ -
						\$ -
Decontamination Costs						
Mobilization						
Direct Push Borings (per point)						
Unit and Operator	< 30 ft depth					\$ 4,400.00
Abandonment	per foot					\$ -
Concrete Core/Patch	each					\$ -
Soil Gas Subcontractor						
Mobilization Costs						
						\$ 900.00
Well Development (if done by subcontractor)						
	Monitoring Wells					
	Piezometers					
	Recovery Wells					
Other						
Drums for soil/water						
						\$ -
Private Locate						
						\$ 750.00
Per Diem						
						\$ 160.00
Steel Bumper Posts						
						\$ -
Traffic Control						
						\$ -
<b>Total Drilling Costs</b>						<b>\$ 6,210.00</b>

Cost includes soil and groundwater sampling and borehole abandonment

Consultant Name:  
 Site Name:  
 BRRTS #:  
 Date:

**DERF Site Investigation Bid Sheet**  
**Analytical Costs**

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Parameter	WI Certified Lab			Field Test/Field Kit			Mobile Lab			Total Costs
	\$/sample	# samples	Method Used	\$/sample	# samples	Method Used	\$/Sample \$/Day	# Samples # Days	Method Used	
<b>Solids Analysis</b>										
VOCs										\$0.00
TCLP										\$0.00
RCRA Metals										\$0.00
Duplicate Analyses										\$0.00
Blank Analyses										\$0.00
Other: (Specify)										\$0.00
<b>Water Analysis</b>										
VOCs	\$ 70	71	8260							\$4,970.00
Nitrate*	\$ 13		4500							\$0.00
Dissolved Oxygen*										\$0.00
Temperature*										\$0.00
Ferrous Iron*	\$ 10		6010							\$0.00
Sulfate*	\$ 11		D516							\$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*	\$50		RSK1							\$0.00
Hydrogen*										\$0.00
Carbon Dioxide*										\$0.00
RCRA Metals										\$0.00
Duplicate Analyses	\$60	8	8260							\$480.00
Blank Analyses	\$ 70	1	8260							\$70.00
Other: DOC	\$60									\$0.00
<b>Air Analysis</b>										
VOCs										\$0.00
TCE										\$0.00
PCE (minimum detection limit is <10 ppbv)										\$0.00
Other: (Specify)										\$0.00
TO-15	\$ 237	0	TO-15							\$0.00
<b>Waste Analyses (soil/water)</b>										
TCLP Ext + VOC Analysis										\$0.00
<b>Miscellaneous</b>										
										\$0.00
										\$0.00
<b>Charge for Mobile Lab (indicate # days and daily fee)</b>										
Total Analytical Costs										\$5,520.00

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

Consultant Name:  
 Site Name:  
 BRRTS #:  
 Date:

**DERF Site Investigation Bid Summary**  
**Consultant Costs**  
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Position (specify)	Hourly Rate	Hours/Task															Total Costs			
		Workplan Development	Offsite Access	Town Of Luck Access Requests	Well Agreement with St. Croix Hardwoods	Drilling Oversight	Well elevation survey	Drilling sampling	Well Development	Hydraulic Conductivity Test	Groundwater sampling	Soil gas/vapor intrusion sampling	SSRCL calculations (contained out or remedial actions)	Statistical Well analysis	Letter Reports	Project Management		Other (specify)		
																		Site Recon for Sub-Slab Locations, Report		
<b>Professional Staff</b>																				
Project Manager	\$ 130	2	6											4	6					\$2,340.00
Senior Hydro/Eng/Sci	\$ 90	4											12	12						\$2,520.00
Project Hydro/Eng/Sci	\$ 80																			\$0.00
Staff Hydro/Eng/Sci	\$ 70													18						\$1,260.00
																				\$0.00
<b>Field Staff</b>																				
Senior Hydro/Eng/Sci	\$ 90				24															\$2,160.00
Project Hydro/Eng/Sci	\$ 80									72										\$5,760.00
Staff Hydro/Eng/Sci	\$ 70																			\$0.00
Env. Specialist	\$ 60																			\$0.00
Tech Support	\$ 60																			\$0.00
Clerical	\$ 50																			\$0.00
Survey Staff	\$ 90																			\$0.00
<b>Office Support Staff</b>																				
Tech Support	\$ 60													1						\$60.00
Clerical	\$ 50																			\$0.00
																				\$0.00
																				\$0.00
																				\$0.00
<b>Total Consulting Costs</b>		\$ 620	\$ 780	\$ -	\$ -	\$ 2,160	\$ -	\$ -	\$ -	\$ -	\$ 5,760	\$ -	\$ -	\$ 1,080	\$ 2,920	\$ 780	\$ -	\$ -	\$ -	\$14,100.00



Consultant Name:  
 Site Name:  
 BRRTS #:  
 Date:

## DERF Site Investigation Bid Summary Sheet

### Miscellaneous Costs

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Major Activity	Specifications	Commodity Unit (specify)	Unit Rate	Number of Units	Total Cost
<b>IDW Disposal</b>					
Soil	Non-Hazardous	55 gal drum			\$ -
Water	Non-Hazardous	55 gal drum			\$ -
Profile/Transportation		per trip			\$ -
Soil	Hazardous	55 gal drum			\$ -
Water	Hazardous	55 gal drum			\$ -
<b>Equipment Rental (list and include shipping costs if applicable)</b>					
Multi-Parameter Downhole Meter	RNA parameters	per day	\$ 75.00	3	\$ 225.00
Water Level Meter		per day	\$ 25.00	3	\$ 75.00
Field PID	soil screening	per day	\$ 75.00		\$ -
Helium Detector (includes shut in apparatus, helium, supplies)	Sub Slab Sampling	per day	\$ 200.00		\$ -
Laser Survey Instrument			\$150.00		\$ -
<b>Field Supplies (list)</b>					
Bailers		each	\$8.00	38	\$ 304.00
Bailer string		each	\$5.00	6	\$ 30.00
EnTech Sub-Slab Sampling Ports		each	\$60.00		\$ -
Whey - Burnett Dairy		Once			\$ -
Luck Access Permits		Once	\$50.00		\$ -
<b>Surveying</b>					
Geodometer		per hr			\$ -
<b>Personal Protection Equipment (list)</b>					
Nitrile gloves	box	each	12	6	\$ 72.00
<b>Sample Shipping Costs</b>					
<b>Other (specify)</b>					
<b>Total Miscellaneous Costs</b>					<b>\$706.00</b>

**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

