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August 14, 2018

Matt Thompson
Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
1300 West Clairemont Avenue
Eau Claire, WI 54701

**Subject: Change Order No. 16 for Environmental Services (DERF)
Limited "Hot Spot" Removal and Other Site Closure Activities (Interim Action)
Former Kraft Cleaners
303-305 South 2nd Avenue, Wausau, Wisconsin
WDNR BRRTS No. 02-37-000294
AECOM Project No. 60299959**

Dear Mr. Thompson:

AECOM is submitting this Change Order for additional Interim Action services at Former Kraft Cleaners to excavate a limited quantity of high-level tetrachloroethene (PCE) source soil contamination remaining next to the apartment building at 113 Callon Street. Our Change Order also includes other activities (i.e., vapor intrusion confirmation sampling and case closure assistance) needed to achieve regulatory case closure for the Former Kraft Cleaners site.

Consulting costs for tasks covered by this Change Order are based on hourly labor rates approved by the Wisconsin Department of Natural Resources (WDNR) on September 21, 2016.

Background

AECOM performed confirmation soil borings at the Former Kraft Cleaners site in April and November 2017, to check the progress of PCE source soil remediation using the SVE system. Laboratory analytical results were summarized in AECOM's Confirmation Soil Borings Report (Updated), dated February 7, 2018, which indicated the following:

- Residual PCE in soil exceeding NR 720 RCLs in the PCE source soil after the SVE system was shut down on November 15, 2017, is generally limited to shallow soil (i.e., uppermost 4 feet) within an area of approximately 4,000 square feet. The estimated volume of residual PCE contaminated soil exceeding the NR 720 RCL-gw (4.5 ug/kg) in shallow soil is between 500 and 600 cubic yards (CY).
- A relatively small and isolated quantity (i.e., less than 10 CY) of residual PCE in soil exceeding the NR 720 Non-Industrial D-C RCL (33,000 ug/kg) remains in the direct contact zone (uppermost 4 feet) in the PCE source soil area near the apartment building at 113 Callon Street.
- The presence of residual PCE in shallow soil exceeding NR 720 RCLs is apparently beyond the reach of the SVE system. Operation of the SVE system started in June 2014. Further effort to remediate PCE contaminated soil using SVE would not likely reduce PCE to levels below NR 720 RCLs. AECOM disconnected remediation system and removed the SVE trailer from the site in May 2018.

The risk of further vapor intrusion (VI) to the apartment building at 113 Callon Street from the PCE source soil area should have been significantly reduced from the pre-remediation condition; however, minimizing the VI pathway risk to the apartment building would require the physical removal of shallow soil exceeding NR 720 RCLs in the PCE source soil area.



Likewise, the VI pathway risk to other buildings surrounding the PCE source soil area should have been significantly reduced from pre-remediation conditions.

AECOM obtained a variance approval letter from the DNR under Sec. NR 169.29, dated February 9, 2018, to obtain one subcontractor quote for limited "hot spot" soil excavation next to the apartment building at 113 Callon Street. The additional remedial action is intended to remove the remaining high-level PCE contaminated soil in the shallow subsurface within the source area, thereby reducing the VI risk to the apartment building even further.

AECOM has completed 8 rounds of groundwater natural attenuation monitoring during the period May 2016 through June 2018. Laboratory analytical results indicated that PCE levels in groundwater beneath the source area have been relatively stable, ranging between 50.7 ug/L (May 5, 2016) and 176 ug/L (December 2, 2016). Overall, PCE levels in groundwater beneath the source area have declined by an order of magnitude from the original concentration of 2,420 ug/L (September 5, 2006). No further groundwater monitoring is planned or proposed at this time.

Scope of Services

Additions to the Interim Action Scope of Services include the following:

1. Limited "Hot Spot" Excavation

A. Pre-Field Activities and Coordination

- 1) Retain a subcontractor (SGS Environmental Contracting, LLC) to locate underground utilities and excavate, load, haul, and dispose of an estimated 130 tons (approximately 90 CY in-situ) of PCE contaminated soil at a regional WDNR licensed landfill.

(Note 1: Lincoln County Landfill located near Merrill, Wisconsin, has been selected for off-site disposal.)

- 2) Retain a WDNR certified laboratory (Pace Analytical Services, Inc.) to analyze confirmation soil samples collected during the remedial excavation.
- 3) Update the project-specific Safe Work Plan/Task Hazard Analysis (SWP/THA) for toxic/hazardous materials to include the Scope of Services described in this Change Order, which shall apply to all AECOM personnel admitted to work on the project site.
- 4) Notify the owner of the apartment building at 113 Callon Street in writing by United States Mail to inform him/her of the fieldwork schedule and planned activities, and to coordinate site access.
- 5) Provide the waste characterization analytical results and waste generator information to the Lincoln County Landfill to establish a waste generator profile for the excavated PCE contaminated soil.
- 6) Submit copies of the previous "Contained-Out" determination and WDNR concurrence letters established for the site to the landfill.

B. Limited Remedial Excavation, Sampling and Analysis

- 1) Mark the limits of four "hot spots" to be excavated from the PCE source area near the apartment building at 113 Callon Street based on previous confirmation soil borings results (see enclosed Hot Spot Excavation Plan for proposed excavation locations and depths).
- 2) Abandon Monitoring Well MW-1 located within the PCE source area according to the requirements of NR 141, Wis. Admin. Code. Document the well abandonment on WDNR Form 3300-005.
- 3) Excavate, load, transport, and dispose of approximately 130 tons of PCE contaminated soil. The material will be disposed of at the Lincoln County Landfill located near Merrill, Wisconsin.
- 4) Field monitor for soil vapors in samples collected from the excavated material using a PID. AECOM will use judgment in the field to determine the actual number and locations of soil samples collected for field screening purposes.
- 5) Assist the excavator with segregating contaminated soil from non-contaminated soil through the use of PID readings, available analytical data, and visual and olfactory evidence.
- 6) Collect confirmation soil samples from the final excavation limits of the four "hot spots," including 1 from each sidewall and bottom (a total of up to 20) for laboratory analysis of Volatile Organic Compounds (VOCs by EPA Method 8260) on normal, 10-day turnaround.
- 7) Backfill the excavations with the segregated, non-contaminated material and imported granular material; compact and level the backfill material to match surrounding grade.
- 8) Photograph the site during the excavation and backfilling activities.

C. Reporting (Limited Remedial Excavation)

- 1) Prepare a Limited Remedial Excavation Report (letter format), which documents contaminated soil excavation, disposal and confirmation sampling results. The report will include:
 - Descriptions and documentation of field and analytical procedures, contaminated soil excavation and disposal.
 - Tabulated field screening and confirmation sample analytical results.
 - A site location map.
 - A site plan showing general site features, excavation limits, and confirmation soil sample analytical results.

- Two post-remediation cross-sections showing the vertical extent of contaminated soil excavation and confirmation soil sample analytical results.
 - Site-specific photographs.
 - Documentation, including copies of the completed monitoring well abandonment form, the waste generator profile, off-site disposal record(s), and laboratory analytical report(s).
- 2) Submit paper and electronic copies of the report to the Wausau Community Development Authority and the WDNR's project manager.

2. Vapor Intrusion Confirmation Sampling and Analysis For Case Closure

A. Pre-Field Activities and Coordination

- 1) Retain a WDNR certified laboratory (Pace Analytical Services, Inc.) to analyze sub-slab confirmation vapor samples.
- 2) Contact property owners by U.S. Mail and/or telephone to schedule the collection of two sets of seasonal sub-slab vapor samples (summer/fall 2018 and winter 2018-19) in buildings immediately surrounding the PCE soil source area at the following locations:
 - 109 Callon Street
 - 113 Callon Street
 - 108, 110, and 112 Clark Street
 - 120 Clark Street and 309 South 2nd Avenue
 - 301 South 2nd Avenue

B. Sub-Slab Vapor Sample Collection and Analysis (Seasonal)

(Note 2: Existing sub-slab sample ports installed by AECOM during the site investigation will be used to collect vapor samples.)

(Note 3: According to guidance in WDNR's Publication RR-800, updated January 2018, and provided to AECOM by Alyssa Sellwood of the WDNR, two sets of vapor samples are proposed to account for the effect of seasonal variability on sub-slab concentrations.)

(Note 4: According to guidance in WDNR's Publication RR-800, the vapor mitigation system (VMS) operating inside the apartment building at 113 Callon Street could be decommissioned before case closure if vapor intrusion sampling shows that sub-slab concentrations are below Vapor Risk Screening Levels (VSRLs). Otherwise, the Wausau Community Development Authority (WCDA) and/or owner of the apartment building will be subject to a Continuing Obligation to operate and maintain the VMS after closure until VSRLs are no longer exceeded.)

(Note 5: The VMS inside the apartment building at 113 Callon Street will be shut off approximately 4 weeks before collecting the first set of sub-slab samples.)

(Note 6: The VMS will be shut off between samples sets, if results for the first set are below sub-slab VRSLs.)

- 1) Set up and collect two sets of seasonal confirmation vapor samples (Summer/Fall 2018 and Winter 2018-19) from each sub-slab sample point using evacuated 6-liter Summa™ canisters (30-minute draw). A summary of the proposed sub-slab vapor samples at each of the five buildings (see enclosed site plan), per set, are summarized below:
 - 109 Callon Street (2 sub-slab vapor samples per set)
 - 113 Callon Street (3 sub-slab vapor samples per set)
 - 108, 110, 112 Clark Street (1 subslab vapor sample per set)
 - 120, 121 Clark Street/309 South 2nd Avenue (2 subslab vapor samples per set)
 - 301 South 2nd Avenue (1 sub-slab vapor sample per set)
- 2) Submit two seasonal sets of sub-slab vapor samples (a total of 18 samples) to the laboratory for analysis of the following chlorinated volatile organic compounds (CVOCs) using EPA Method TO-15 (shortlist) on a normal, 10-day turnaround:
 - Tetrachloroethylene (PCE)
 - Trichloroethylene (TCE)
 - cis-1,2 Dichloroethylene (cis-1,2 DCE)
 - trans-1,2 Dichloroethylene (trans-1,2 DCE)
 - Vinyl chloride

C. Updated VI Notification/Results Letters (Seasonal)

- 1) Submit a preliminary summary of each set of seasonal VI confirmation sample results to the WDNR and WCDA via email, including tabulated analytical results and a site map(s) showing sample collection locations.
- 2) Assist the WDNR and WCDA with preparation and production of updated VI notification letters reporting confirmation sample results to the building owners (5) for each seasonal VI sample set. Each set of seasonal, updated letters (2 sets: Summer/Fall 2018 and Winter 2018-19) will include:
 - a) Preparing and printing updated letters on WCDA letterhead and attaching referenced enclosures.
 - b) Preparing mailing envelopes with postage, addressee labels and return WCDA address labels (one envelope per letter).



- c) Submitting the set of final letters, enclosures and pre-addressed envelopes to the WCDA for mailing.

3. Case Closure Assistance and Notifications

A. Case Closure Request - GIS Registry Package

- 1) Following completion of the limited "hot spot" excavation and seasonal VI confirmation sampling, prepare and submit a Case Closure - GIS Registry package (WDNR Form 4400-202) to the WDNR for review and comment.
- 2) Address the WDNR's review comments, and submit revised case closure request documentation, if necessary.

B. Notifications of Residual Contamination

- 1) Prepare and submit a notification of residual soil and/or groundwater contamination (WDNR Form 4400-282) on private property to adjacent property owners, including the following:
 - 109 Callon Street
 - 113 Callon Street
 - 108 - 112 Clark Street
 - 120 - 121 Clark Street/309 South 2nd Avenue
- 2) Prepare and submit a notification of residual soil and/or groundwater contamination (WDNR Form 4400-282) within public R/W to the City of Wausau.
- 3) Include a copy of each completed notification with the Case Closure - GIS Registry package.

Assumptions

This Change Order is subject to the following assumptions:

1. All PCE contaminated soil excavated from the site can be disposed of as non-hazardous solid waste.
2. The depth to groundwater beneath the site is approximately 18 feet below ground surface. Groundwater will not be encountered during excavation.
3. Monitoring well MW-1 will not need to be replaced after completion of the remedial excavation. Other wells remaining within the site's monitoring well network will be permanently abandoned after receipt of a conditional closure letter from the WDNR.
4. The City of Wausau will identify underground utility locations not covered by Diggers' Hotline. Location marking for such utilities will be provided at no cost to AECOM.
5. Seasonal VI confirmation results may show that sub-slab vapor concentrations do not meet or exceed VSRLs in the apartment building at 113 Callon Street, and site-specific hydrogeologic conditions will not present a vapor risk.



6. For cost estimating purposes, it is assumed that case closure can be achieved without placement of a continuing obligation on the WCDA and/or property owner to operate and maintain the VMS inside the apartment building at 113 Callon Street after closure.
7. The WDNR will not require additional indoor/outdoor air VI confirmation samples to be collected for analysis prior to case closure.
8. The WDNR will not require additional groundwater monitoring beyond the 8 rounds of monitoring completed at the site by AECOM through June 2018, prior to case closure.
9. The WDNR will require the site to be added to the agency's online GIS Registry of Contaminated Sites because residual PCE in soil exceeds the NR 720 RCL-gw and PCE in groundwater exceeds the NR 140 ES.
10. Chapter NR 749 fees paid to the WDNR for case closure review and agency database listings are not eligible for reimbursement from the DERF program.

Cost

For informational purposes, the following is a summary of the total project costs (approved and proposed) for this site:

Original Bid	\$37,209.00	(approved August 27, 2008)
Change Order No. 1	\$13,980.00	(approved September 15, 2009)
Change Order No. 2	\$75,877.00	(approved May 24, 2013)
Change Order No. 3	\$16,446.00	(approved January 15, 2014)
Change Order No. 4 (no cost)	\$ 0.00	(approved March 27, 2014)
Change Order No. 5 (no cost)	\$ 0.00	(approved May 9, 2014)
Change Order No. 6	\$30,180.00	(approved April 28, 2014)
Change Order No. 7	\$28,378.00	(approved June 26, 2014)
Change Order No. 8	\$84,445.00	(approved November 13, 2014)
Change Order No. 9	\$60,523.00	(approved February 12, 2015)
Change Order No. 10 (email only)	\$1,083.00	(approved May 4, 2015)
Change Order No. 11 (email only)	\$3,365.00	(approved September 10, 2015)
Change Order No. 12	\$99,786.00	(approved December 4, 2015)
Change Order No. 13	\$9,317.00	(approved March 1, 2016)
Change Order No. 14	\$12,586.00	(approved November 11, 2016)
Change Order No. 15	<u>\$27,651.00</u>	(approved July 13, 2017)
Subtotal (DERF approved to date)	\$500,826.00	
Change Order No. 16 (Interim Action)	<u>\$44,191.00</u>	(proposed)
Total Project Cost	\$545,017.00	

A detailed breakdown of estimated costs for the additional Interim Action services covered by this Change Order is provided on the enclosed Dry Cleaner Environmental Response Fund (DERF) Cost Estimate Sheets (Form 4400-233).



Schedule

The estimated schedule for Interim Action tasks covered by this change order is as follows:

- | | | |
|----|---|------------------|
| 1. | Limited "Hot Spot" Excavation: | Summer/Fall 2018 |
| 2. | Seasonal Set #1 VI Confirmation Samples/Analysis: | Summer/Fall 2018 |
| 3. | Seasonal Set #2 VI Confirmation Samples/Analysis: | Winter 2018-19 |
| 4. | Case Closure Request Submittal: | Spring 2019 |

Schedules are subject to change based on WDNR and WCDA approvals for project funding.

AECOM will initiate the proposed additional services following approval of this Change Order by the WDNR and WCDA.

Please contact Kyle Wagoner at 715-342-3038 if you have any questions or need further assistance.

Sincerely,

Kyle W. Wagoner, P.G., CHMM
Project Manager
kyle.wagoner@aecom.com
715-342-3038

David S. Senfelds, P.E., CHMM
Operations Manager, Environment
david.senfelds@aecom.com
715-342-3039

Enclosures: PCE "Hot Spot" Excavation Plan
VI Sub-Slab Confirmation Sampling Locations
DERF Cost Estimate Sheets

c/encl: Kevin Fabel, Environmental Coordinator, City of Wausau (electronic only)
Christian Schock, Director, Wausau Community Development Authority (electronic only)

Consultant Name: AECOM
Site Name: Fmr Kraft Cleaners
BRRTS #:02-37-000294

Site Information

Site Name: Former Kraft Cleaners

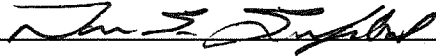
Consultant Name: AECOM

Applicant Name: Wausau Community
Development Authority

Interim Action Summary (DERF Change Order No. 16)

Drilling Costs Total =	\$0.00
Analytical Costs Total =	\$4,900.00
Consulting Costs =	\$31,136.00
Misc Costs Total =	\$8,155.00
Grand Total (Interim Action) =	\$44,191.00

Consultant Signature



Date

8/14/18

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

Note: Labor Rates approved by WDNR September 21, 2016

Consultant Name: AECOM
 Site Name: Former Kraft Cleaners
 BRRS #: 02-37-000294

**DERF Interim Action
 Drilling Costs**
 Form 4400-233 (R 4/04) Page 2 of 6

Drilling Costs						
Task	Interval or Unit	Number of Borings, Wells or Quantity	Number of Samples	Total Number Feet Drilled/Abandoned	Cost/feet, Sample or Well	Total Cost
Monitoring Well Installation and Completion						
						\$0.00
Auger Borings (no sampling)						
						\$0.00
Auger Borings (specify split spoon sampling interval)						
						\$0.00
Soil Borings						
						\$0.00
Well Development (if done by subcontractor)						
						\$0.00
Other						
						\$0.00
Total Drilling Costs						\$0.00

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	
Solids Analysis (Pace)										
VOCs (Confirmation Soil Samples, Pace)	\$65.00	20	EPA 8260							\$1,300.00
TCLP VOCs (EPA 1311)										\$0.00
RCRA Metals										\$0.00
Duplicate Analyses										\$0.00
Blank Analyses										\$0.00
Other: (Specify)										\$0.00
Water Analysis (low flow sampling assumed unless otherwise indicated at bottom of this sheet)										
VOCs (EPA 8260)										\$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										\$0.00
Other: (Specify)										\$0.00
Air Analysis (Sub-Slab Confirmation VI Samples, Pace)										
Short list VOCs (TO-15) - Interim Action	\$125.00	18	EPA TO-15							\$2,250.00
Other: (flow controller) - Interim Action	\$35.00	18								\$630.00
Other: (Summa Canister Rental) - Interim Action	\$40.00	18								\$720.00
										\$0.00
Waste Analyses (soil/water)										
										\$0.00
										\$0.00
Miscellaneous (specify)										
										\$0.00
										\$0.00
Charge for Mobile Lab (Indicate # days and daily fee)										
Total Analytical Costs										\$4,900.00

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

Position (specify)	New Hourly Rate	Limited "Hot Spot" Excavation: Pre-field Activities/Coord'n; Oversight & Confirm'n Sampling; Reporting	VI Confirmation Sampling for Case Closure (seasonal): Pre-field Activities/Coord'n; Sub-Slab Vapor Sampling (2 sets); Updated VI Notif'n Letters (2 sets)	Case Closure Assistance & Notif'ns: Case Closure - GIS Registry Pkg., Residual Contamination Notifications	Project Management, Sr. Review, Admin/Accounting			Total Costs
Professional Staff								
Principal	\$ 170.00				4			\$680.00
Sr. Consultant	\$ 153.00	10	12	12	28			\$9,486.00
Consultant II	\$ 122.00							\$0.00
Technical Project Staff	\$ 93.00	4	2		4			\$930.00
Technical Staff	\$ 88.00	24	30	80				\$11,792.00
								\$0.00
Field Staff								
Consultant II	\$ 122.00							\$0.00
Technical Staff	\$ 88.00	22	42					\$5,632.00
								\$0.00
Office Support Staff								
CAD/Drafting	\$ 88.00	3	4	3				\$880.00
Clerical	\$ 62.00	6	12	2	8			\$1,736.00
								\$0.00
Total Consulting Costs								\$31,136.00

DERF Interim Action Misc Costs

Major Activity	Specifications	Commodity Unit (specify)	Unit Rate	Number of Units	Total Cost
Misc					
Limited "Hot Spot" Excavation (SGS Environmental Contracting, LLC)	Excavate, load, haul & off-site disposal; approx. 130 tons	see bid form	see bid form	see bid form	\$7,820.00
					\$0.00
Equipment Rental (list and include shipping costs if applicable)					
Helium Meter, gas & shipping (seasonal VI) - Interim Action		Day	\$ 120.00	2	\$240.00
					\$0.00
Field Supplies (list)					
Seasonal VI confirm'n sampling mat'ls - Interim Acton		Day	\$ 10.00	2	\$20.00
					\$0.00
Surveying					
					\$0.00
Personal Protection Equipment (list)					
PID		Day	\$ 75.00	1	\$75.00
Sample Shipping Costs					
					\$0.00
Other (specify)					
					\$0.00
					\$0.00
Total Miscellaneous Costs					\$8,155.00

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 reimbursable. No expedited shipping w/o prior PM approval.

**QUOTE FORM FOR PCE SOIL "HOT SPOT" EXCAVATION
(INTERIM ACTION)
FORMER KRAFT CLEANERS
303-305 S. 2ND AVE.
WAUSAU, WI 54403**

Scope of Work Item	Estimated Quantity	Unit Cost	Total Estimated Cost
1. Mobilization/Demobilization; Locate Underground Utilities	LS	\$ <u>450.00</u>	\$ <u>450.00</u>
2. Excavate, load and transport tetrachloroethene (PCE) contaminated soil to a regional Wisconsin licensed, solid waste landfill; maximum excavation depths vary (see PCE "Hot Spot" Excavation Plan) <i>Note: Subcontractor shall identify the Wisconsin licensed, solid waste landfill with submittal of quote.</i>	130 tons (~90 CY in-situ)	\$ <u>19.00</u> /ton	\$ <u>2470.00</u>
3. Dispose of PCE contaminated soil (non-hazardous waste) at a Wisconsin licensed, solid waste landfill	130 tons	\$ <u>28.00</u> /ton	\$ <u>3640.00</u>
4. Backfill excavation with imported granular material consisting of all aggregate particles having a dimension less than 12 inches, measured on any face, and a maximum of 15% by weight passing the No. 200 sieve; compact backfill material using appropriate compaction equipment in 1 foot lifts; level backfill material as necessary to match surrounding grade. <i>Note: Subcontractor shall provide clean, imported granular material.</i>	90 CY	\$ <u>14.00</u> /CY	\$ <u>1260.00</u>
TOTAL			\$ <u>7820.00</u>

Name and Location of Wisconsin Licensed Solid Waste Landfill to be used for Disposal of Contaminated Soil: Lincoln County Landfill

Specifications

1. Completed quote form is due to AECOM via email to Kyle Wagoner at kyle.wagoner@aecom.com by 4:00 pm (central) on Friday, May 25, 2018.
2. Subcontractor shall locate underground utilities at the site prior to the start of work. Subcontractor is responsible for protection of located underground utilities and replacement of the same if damaged during excavation or backfilling.

3. AECOM will coordinate the generator's waste profile approval with the landfill prior to the start of work.
4. AECOM will stake the perimeter of the excavation area prior to the start of work.
5. All site ingress and egress shall be via 2nd Avenue on the west side of the site.
6. The in-situ volume of PCE contaminated soil is approximately 90 cubic yards.
7. Subcontractor shall use loading and hauling practices that are appropriate to prevent any spills or releases of soils or residues. The soil will be sufficiently dewatered prior to transport so as not to contain free liquids.
8. The City of Wausau (responsible party) will be identified as the waste generator.
9. All Work associated with the source removal excavation shall be conducted under a single mobilization and shall proceed on a daily basis, excluding weekends and holidays, until completed.
10. All Work associated with the source removal excavation shall be completed on or before September 30, 2018.
11. If temporary soil stockpiling is necessary, Subcontractor shall place temporarily stockpiled soil containing PCE on the work site on an impervious base such as concrete, asphalt, heavy plastic sheeting, or an impervious construction fabric.
12. Subcontractor shall ensure that all soil containing PCE, which is temporarily stockpiled on the work site, is sloped and graded to eliminate depressions in the surface and is covered. The cover will be in place at all times when the soil is not being transferred. The cover will be constructed of an impervious material, such as heavy plastic sheeting, impervious construction fabric, or other flexible impervious material. The cover material will be anchored in place, by means such as weights, ropes, cables, cords, chains or stakes to prevent the soil from being exposed. Soil will not be used to anchor the cover material. The impervious cover will be re-anchored and/or repaired, as needed, until the soil can be hauled to the off-site disposal facility.
13. Subcontractor shall provide barricades, as appropriate, to limit access to the excavation during non-work hours.
14. Subcontractor shall provide copies of landfill weight tickets to AECOM within 10 business days after completion of the work.
15. An AECOM technician will be on site to oversee the soil excavation, collect soil samples for field screening and analysis, identify contaminated soil to be disposed of off-site, and oversee backfilling and compaction.
16. Subcontractor is responsible for obtaining all necessary permits, licenses and certifications required for soil excavation and waste material transporting.
17. Subcontractor shall leave the work site in a state of cleanliness at least equal to the pre-work condition.
18. All costs not specifically listed are considered incidental to the work and should be included in the appropriate bid item.

19. Subcontractor shall provide itemization of costs on invoices submitted to AECOM reflecting items and quantities included in the Quote Form.

20. Subcontractor shall submit an insurance certificate to AECOM before work begins describing current insurance coverage, including types of coverage and monetary amount. Subcontractor shall name AECOM and City of Wausau Community Development Authority as additional insureds.

The undersigned accepts the terms and conditions of the Specifications accompanying this quote.

Date of Quote: 5/29/18

Name/Address of Subcontractor:

SGS Environmental Contracting LLC
N2570 Daytona Dr. Merrill WI 54452

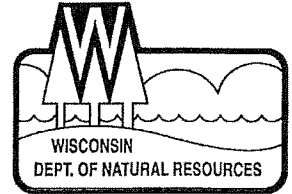
Print Name/Title of Quote Submitter: Jay A Schlueter / Owner

Signature of Quote Submitter: Jay A. Schlueter

(5/17/2018)

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1300 W. Clairemont Ave.
Eau Claire WI 54701

Scott Walker, Governor
Daniel L. Meyer, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



February 9, 2018

Christian Schock
Wausau Community Development Authority
407 Grant Street
Wausau, WI 54403

Subject: Approval of Variance Request
Former Kraft Cleaners, 303-305 South 2nd Avenue, Wausau, Wisconsin
BRRTS #02-37-000294

Dear Mr. Schock :

Your variance request for the above-named site is approved. The Wisconsin Department of Natural Resources (Department) received your request for variance of section ch. NR 169.11(1)(c)10, Wis. Adm. Code, known as the Dry Cleaners Environmental Response Fund (DERF) program on February 5, 2018.

This variance relieves the responsible party from the requirement to solicit three consultant bids for the excavation of "hot spots" near the apartment building at 113 Callon Street.

Please note that this variance does not assure that all costs submitted for reimbursement by DERF will be approved. All incurred costs are subject to the eligibility requirements listed under s. NR 169.13(2), Eligible Costs, and will be reviewed for compliance. All other requirements for investigation and remediation of the release as well as DERF requirements also apply. This variance approval will be filed and reviewed with any future DERF reimbursement requests.

If you have any questions regarding the content of this letter, please contact me at 715-839-3750 or MatthewA.Thompson@wisconsin.gov.

Sincerely,

Matt Thompson
Hydrogeologist

Remediation & Redevelopment Program

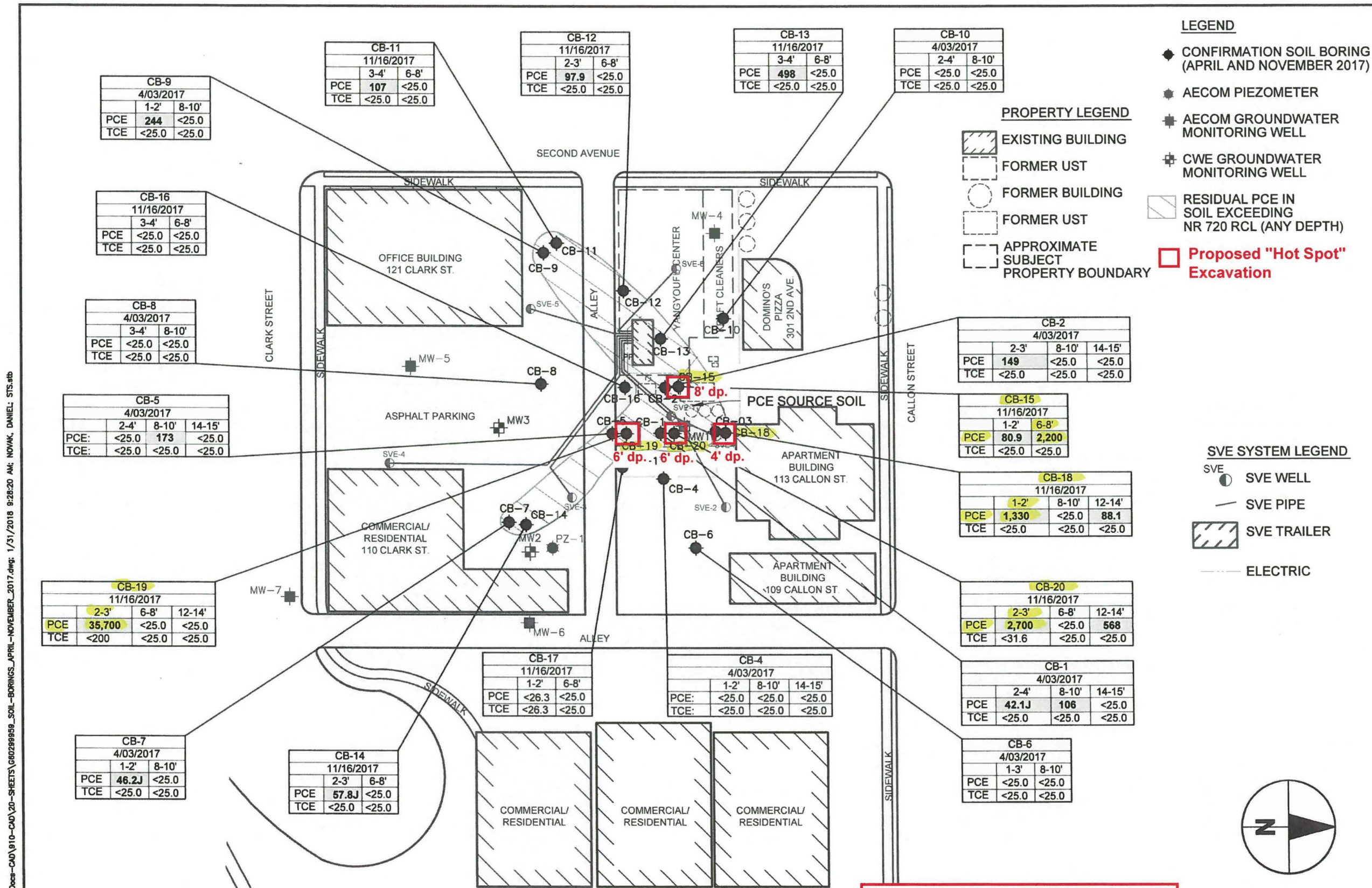
cc: Kyle Wagoner, AECOM
DERF Fund Manager – CF/2, GEF 2, Madison

CONFIRMATION SOIL BORINGS & RESULTS (APRIL AND NOVEMBER 2017)
INTERIM ACTION
FORMER KRAFT CLEANERS
303-305 SOUTH SECOND AVENUE
WAUSAU, WISCONSIN

- LEGEND**
- ◆ CONFIRMATION SOIL BORING (APRIL AND NOVEMBER 2017)
 - AECOM PIEZOMETER
 - AECOM GROUNDWATER MONITORING WELL
 - ⊕ CWE GROUNDWATER MONITORING WELL
 - ▨ RESIDUAL PCE IN SOIL EXCEEDING NR 720 RCL (ANY DEPTH)
 - Proposed "Hot Spot" Excavation

- PROPERTY LEGEND**
- ▨ EXISTING BUILDING
 - ▤ FORMER UST
 - FORMER BUILDING
 - ▤ FORMER UST
 - ▤ APPROXIMATE SUBJECT PROPERTY BOUNDARY

- SVE SYSTEM LEGEND**
- SVE WELL
 - SVE PIPE
 - ▨ SVE TRAILER
 - ELECTRIC



CB-9		
4/03/2017		
1-2'	8-10'	
PCE 244	<25.0	
TCE <25.0	<25.0	

CB-11		
11/16/2017		
3-4'	6-8'	
PCE 107	<25.0	
TCE <25.0	<25.0	

CB-12		
11/16/2017		
2-3'	6-8'	
PCE 97.9	<25.0	
TCE <25.0	<25.0	

CB-13		
11/16/2017		
3-4'	6-8'	
PCE 498	<25.0	
TCE <25.0	<25.0	

CB-10		
4/03/2017		
2-4'	8-10'	
PCE <25.0	<25.0	
TCE <25.0	<25.0	

CB-16		
11/16/2017		
3-4'	6-8'	
PCE <25.0	<25.0	
TCE <25.0	<25.0	

CB-8		
4/03/2017		
3-4'	8-10'	
PCE <25.0	<25.0	
TCE <25.0	<25.0	

CB-5			
4/03/2017			
2-4'	8-10'	14-15'	
PCE: <25.0	173	<25.0	
TCE: <25.0	<25.0	<25.0	

CB-2			
4/03/2017			
2-3'	8-10'	14-15'	
PCE 149	<25.0	<25.0	
TCE <25.0	<25.0	<25.0	

CB-15		
11/16/2017		
1-2'	6-8'	
PCE 80.9	2,200	
TCE <25.0	<25.0	

CB-18			
11/16/2017			
1-2'	8-10'	12-14'	
PCE 1,330	<25.0	88.1	
TCE <25.0	<25.0	<25.0	

CB-20			
11/16/2017			
2-3'	6-8'	12-14'	
PCE 2,700	<25.0	568	
TCE <31.6	<25.0	<25.0	

CB-19			
11/16/2017			
2-3'	6-8'	12-14'	
PCE 35,700	<25.0	<25.0	
TCE <200	<25.0	<25.0	

CB-17		
11/16/2017		
1-2'	6-8'	
PCE <26.3	<25.0	
TCE <26.3	<25.0	

CB-4			
4/03/2017			
1-2'	8-10'	14-15'	
PCE: <25.0	<25.0	<25.0	
TCE: <25.0	<25.0	<25.0	

CB-1			
4/03/2017			
2-4'	8-10'	14-15'	
PCE 42.1J	106	<25.0	
TCE <25.0	<25.0	<25.0	

CB-7		
4/03/2017		
1-2'	8-10'	
PCE 46.2J	<25.0	
TCE <25.0	<25.0	

CB-14		
11/16/2017		
2-3'	6-8'	
PCE 57.8J	<25.0	
TCE <25.0	<25.0	

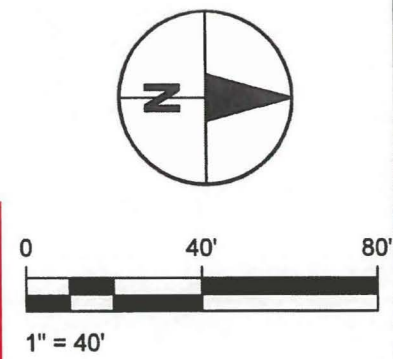
PCE "HOT SPOT" EXCAVATION PLAN
Former Kraft Cleaners Site
303 - 305 S. Second Ave.
Wausau, WI
DNR BRRTS No. 02-37-000294

NOTES AND EXCEEDANCE LEGEND:

6,160 BOLD RESULTS INDICATES NR 720 SOIL TO GROUNDWATER PATHWAY RCL EXCEEDANCE FOR PCE (4.5 ug/kg).

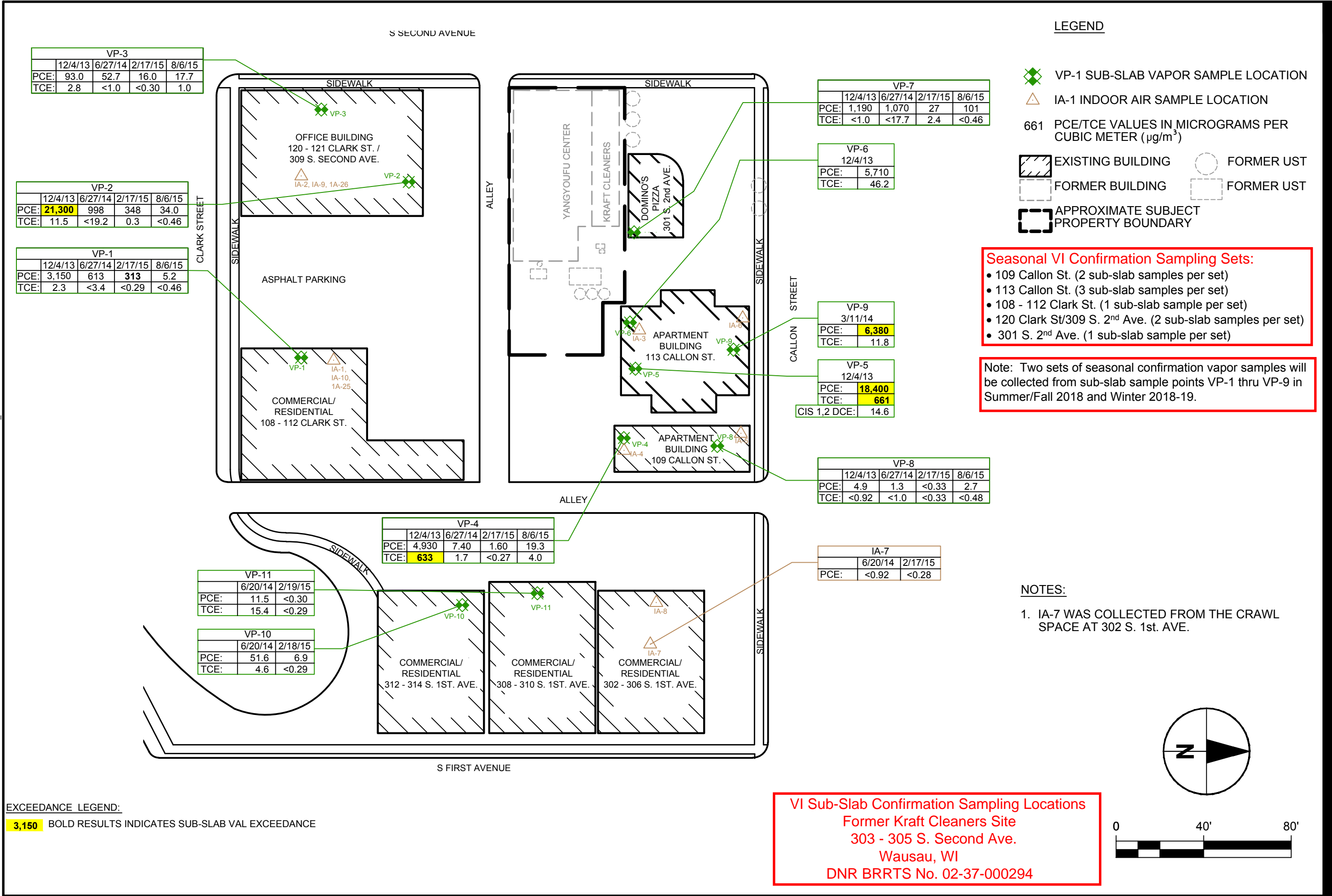
ALL RESULTS IN MICROGRAMS PER KILOGRAM (ug/kg).

THE SVE SYSTEM WAS OPERATED SEASONALLY FROM JUNE 16, 2014 UNTIL NOVEMBER 15, 2017



Drawn :	DAN	12/2017
Checked:	DWF	12/2017
Approved:	DSS	12/2017
PROJECT NUMBER	60299959	
FIGURE NUMBER	3	

P:\60299959\900-WorkingDocs-CAD\910-CAD\20-SHEETS\G0299959_SOIL-BORINGS-APRIL-NOVEMBER_2017.dwg: 1/31/2018 9:28:20 AM: NOVAK, DANIEL: STS.sdb



VP-3

	12/4/13	6/27/14	2/17/15	8/6/15
PCE:	93.0	52.7	16.0	17.7
TCE:	2.8	<1.0	<0.30	1.0

VP-2

	12/4/13	6/27/14	2/17/15	8/6/15
PCE:	21,300	998	348	34.0
TCE:	11.5	<19.2	0.3	<0.46

VP-1

	12/4/13	6/27/14	2/17/15	8/6/15
PCE:	3,150	613	313	5.2
TCE:	2.3	<3.4	<0.29	<0.46

VP-7

	12/4/13	6/27/14	2/17/15	8/6/15
PCE:	1,190	1,070	27	101
TCE:	<1.0	<17.7	2.4	<0.46

VP-6

	12/4/13
PCE:	5,710
TCE:	46.2

VP-9

	3/11/14
PCE:	6,380
TCE:	11.8

VP-5

	12/4/13
PCE:	18,400
TCE:	661
CIS 1,2 DCE:	14.6

VP-8

	12/4/13	6/27/14	2/17/15	8/6/15
PCE:	4.9	1.3	<0.33	2.7
TCE:	<0.92	<1.0	<0.33	<0.48

IA-7

	6/20/14	2/17/15
PCE:	<0.92	<0.28

VP-4

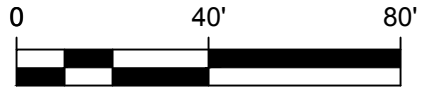
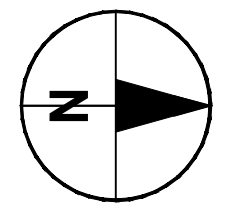
	12/4/13	6/27/14	2/17/15	8/6/15
PCE:	4,930	7.40	1.60	19.3
TCE:	633	1.7	<0.27	4.0

VP-11

	6/20/14	2/19/15
PCE:	11.5	<0.30
TCE:	15.4	<0.29

VP-10

	6/20/14	2/18/15
PCE:	51.6	6.9
TCE:	4.6	<0.29



Site Name: Former Kraft Cleaners

BRRTS #: 02-27-000294

Type of Action: Site Investigation, Interim Action, Immediate Action

Dry Cleaner Environmental Response Program

Reimbursement Cost Detail Linking Spreadsheet Form 4400-2140 (R 08/12)

TASKS	BUDGET (TOTAL)																	INVOICES	DERF COST BREAKOUT (this change order)								Budget Remaining Use (1 to indicate cost over-run)	% Task Complete, Remarks										
	Bid / Budgeted Amount - \$	Change Order #1 - \$	Change Order #2 - \$	Change Order #3 - \$	Change Order #4 - \$	Change Order #5 (reallocated from Change Orders #2 & #3) - \$	Change Order #6 - Immediate Action - \$	Change Order #7 - S & Interim Action - \$	Change Order #8 - Interim Action - \$	Change Order #9 - S & Interim Action - \$	Change Order #10 - Interim Action - \$	Change Order #11 - Interim Action - \$	Change Order #12 (Rev. 1) - S & Interim Action - \$	Change Order #13 - S - \$	Change Order #14 - Interim Action - \$	Change Order #15 - Interim Action - \$	Change Order #16 - Interim Action - \$		INVENTORY	Total Approved Budget	Previous Claims (if applicable)	INVENTORY	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					
Vendor/ Cost																																						
Task																																						
PM Admin/Account/Sr. Rev/Consultg/Meetings	\$ 1,420.00	\$ 650.00	\$ 6,282.00	\$ 1,530.00	\$ 1,254.00	\$ 2,568.00	\$ 8,185.00	\$ 1,628.00	\$ 10,144.00	\$ 7,970.00	\$ 290.00		\$ 4,770.00	\$ 663.00	\$ 1,736.00	\$ 2,768.00	\$ 5,832.00		\$ 57,710.00													\$	Task % Complete, Remarks					
Off-Site Access Agreements, ROW Perms	\$ -	\$ -	\$ -	\$ 1,640.00	\$ 596.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -		\$ -													\$						
Field Activities (includes pre-field coord & field work)	\$ 8,005.00	\$ 3,665.00	\$ -	\$ 5,650.00	\$ 12,970.00	\$ 4,490.00	\$ 18,344.00	\$ 98.00	\$ 510.00	\$ 32,655.00	\$ 2,960.00	\$ 3,230.00	\$ 12,186.00	\$ 9,887.00					\$ 163,295.00													\$						
Report Preparation/DAM Plans/Risk/Status Checks/Screening/Cases Closure Request & Notifications	\$ 6,880.00	\$ 1,753.00	\$ 3,072.00	\$ 48.00	\$ 1,526.00	\$ 706.00	\$ 3,005.00	\$ 14,470.00	\$ 5,692.00	\$ 23,326.00		\$ 14,721.00	\$ 3,610.00	\$ 5,198.00	\$ 15,752.00				\$ 98,789.00													\$						
Miscellaneous Supplies/Equip	\$ 1,660.00	\$ 505.00	\$ 3,002.00	\$ -	\$ 450.00	\$ 8,765.00		\$ 130.00	\$ 1,225.00	\$ 1,280.00	\$ 695.00		\$ 5,345.00		\$ 500.00				\$ 23,557.00													\$						
Initial SVE System Rental (AECOM, 120 scfm blower/AECOM/Mechanical/2 months)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 2,850.00						\$ 2,850.00													\$						
Ship Initial SVE Rental 120 scfm blower back to AECOM/Mechanical/2 months, PA									\$ 500.00										\$ 500.00													\$						
Ship Expanded SVE Rental System (350 scfm) & Enclosure from AECOM/Mechanical/2 months to Site									\$ 3,500.00										\$ 3,500.00													\$						
Expanded SVE System Rental (350 scfm blower/blower)									\$ 12,900.00										\$ 12,900.00														\$					
Caliber Services for Expanded SVE System Auto-filler									\$ 120.00										\$ 120.00														\$					
Subfloor Vapor Assessment/OR-Site V. Pathway Remediation	\$ -	\$ 525.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 635.00					\$ 635.00														\$						
Continued Out Determination	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -					\$ -														\$						
Interim Action SVE System Design & Coordn	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,980.00	\$ 240.00											\$ 4,220.00														\$					
Full SVE System Design & PA Plan	\$ -	\$ -	\$ 5,308.00	\$ -	\$ -	\$ -	\$ 5,308.00												\$ 5,308.00														\$					
Consultant/ Contractor Fees	\$ 18,865.00	\$ 7,298.00	\$ 28,679.00	\$ 3,218.00	\$ 9,736.00	\$ 34,917.00	\$ 15,680.00	\$ 23,028.00	\$ 69,231.00	\$ 49,900.00	\$ 1,083.00	\$ 610.00	\$ 27,466.00	\$ 3,623.00	\$ 6,876.00	\$ 20,652.00	\$ 31,427.00	\$ 4,400,003.00															\$					
Sub-Contractor Costs																																		\$				
Service																																		\$				
Design/Drawings, Soils & Engineering Services	\$ 10,254.00	\$ 5,010.00	\$ 1,210.00	\$ -	\$ -	\$ 1,015.00		\$ 3,105.00	\$ 2,058.00				\$ 6,310.00	\$ 5,694.00	\$ 2,385.00	\$ 2,964.00		\$ 40,005.00															\$					
Analytical (Phase and Syringe)	\$ 4,840.00	\$ 1,227.00	\$ 4,189.00	\$ -	\$ -	\$ 2,600.00	\$ 1,450.00	\$ 400.00	\$ 4,400.00	\$ 6,425.00			\$ 8,470.00	\$ 1,625.00	\$ 1,485.00	\$ 4,900.00		\$ 44,130.00															\$					
ROV/Drift (Phase) (Gases/SOS)	\$ 4,050.00	\$ 920.00	\$ -	\$ -	\$ -	\$ 490.00		\$ 900.00	\$ 1,550.00				\$ 1,080.00	\$ 715.00				\$ 2,795.00															\$					
Asphalt/Concrete Rubble Disposal (Gases/SOS)						\$ 750.00													\$ 750.00															\$				
SOE Data to monitor stream (4, 14 day) (blower)						\$ 975.00							\$ 780.00						\$ 1,755.00														\$					
WPS Power Drop (blower) (225 V, 3 phase)						\$ 3,000.00													\$ 3,000.00															\$				
Electrician to install meter & connect system (Blower/Mech/Electric)						\$ 500.00		\$ 3,228.00	\$ 1,970.00										\$ 5,698.00															\$				
Fuel Delivery Service for Diesel Electric Generator (14 month of system operation)						\$ 2,460.00													\$ 2,460.00															\$				
Vapor Mitigation System Installation for 113 Canton St. (blower Man or W)						\$ 13,950.00													\$ 13,950.00															\$				
Electrical Service Usage to Operate Vapor Mitigation System at 113 Canton St. (1 year)						\$ -		\$ 200.00											\$ 200.00															\$				
Electrical Service Usage to Operate Initial SVE System (2 mos.)						\$ 300.00													\$ 300.00															\$				
Electrical Service Usage to Operate Expanded SVE System (WPS)						\$ 2,400.00			\$ 4,800.00										\$ 7,200.00																\$			
Machine Handling & Asphalt Recycling for Interim Action SVE System Installation (Gases/SOS)						\$ 950.00		\$ 4,266.00		\$ 2,870.00									\$ 8,086.00															\$				
Sub-Contractor Cost Form	\$ 19,144.00	\$ 6,887.00	\$ 6,349.00	\$ -	\$ 2,400.00	\$ 8,895.00	\$ 14,300.00	\$ 8,502.00	\$ 18,414.00	\$ 10,603.00	\$ 2,670.00	\$ 22,200.00	\$ 6,694.00	\$ 4,010.00	\$ 6,999.00	\$ 12,720.00	\$ 1,144,124.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$			
DERF ELIGIBLE SUB-TOTALS	\$ 19,144.00	\$ 6,887.00	\$ 6,349.00	\$ -	\$ 2,400.00	\$ 8,895.00	\$ 14,300.00	\$ 8,502.00	\$ 18,414.00	\$ 10,603.00	\$ 2,670.00	\$ 22,200.00	\$ 6,694.00	\$ 4,010.00	\$ 6,999.00	\$ 12,720.00	\$ 1,144,124.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$			
DERF ELIGIBLE SUB-TOTALS	\$ 19,144.00	\$ 6,887.00	\$ 6,349.00	\$ -	\$ 2,400.00	\$ 8,895.00	\$ 14,300.00	\$ 8,502.00	\$ 18,414.00	\$ 10,603.00	\$ 2,670.00	\$ 22,200.00	\$ 6,694.00	\$ 4,010.00	\$ 6,999.00	\$ 12,720.00	\$ 1,144,124.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$		
Non-DERF Eligible Expenses																																					\$	
Per Diem/Meals																			\$ -																	\$		
Postage/Supplies																			\$ -																	\$		
WCRAR Focus Bid Rate Deduction/SOS																			\$ -																	\$		
Non-DERF COST FORM																			\$ -																	\$		
INVOICE GRAND TOTAL																			\$ -																		\$	

Total DERF Eligible Costs This Change Order \$ 12,720.00

Check Numbers

Thompson, Matthew A - DNR

From: Wagoner, Kyle <KYLE.WAGONER@aecom.com>
Sent: Tuesday, August 14, 2018 5:08 PM
To: Thompson, Matthew A - DNR
Cc: Kevin Fabel; Christian Schock (Christian.Schock@ci.wausau.wi.us)
Subject: DERF Change Order #16 (Interim Action) - Former Kraft Cleaners, Wausau (BRRTS # 02-37-000294)
Attachments: 02-37-000294_DERF_CO_#16.pdf; Hot Spot Excavation Plan.pdf; VI Sub-Slab Sampling Locations .pdf; Form_4400-214D_CO#16.xlsx

Matt-

Please see the attached DERF change order for additional Interim Action services at the Former Kraft Cleaners site in Wausau. It covers excavation of a limited quantity of high-level PCE source soil contamination remaining next to the apartment building at 113 Callon Street. The change order also includes other site closure activities (i.e., vapor intrusion confirmation sampling and case closure assistance) needed to achieve regulatory case closure for the site.

Don't hesitate to contact me if you have any Q's or need anything else.

Kyle

Kyle Wagoner, P.G., CHMM
Project Manager
Environment
D 715.342.3038
Internal Cisco Extension 2103038
kyle.wagoner@aecom.com

AECOM
200 Indiana Avenue, Stevens Point, WI 54481
T 715.341.8110 F 715.341.7390

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