

January 16, 2014

Mr. Richard Klinke Klinke Cleaners 4518 Monona Drive Madison, Wisconsin 53716



Re: Site Investigation Report and Closure Request Work Scope and Cost Estimate

Klinke Cleaners

2875 University Ave, Madison, Wisconsin

BRRTS#: 02-13-551964

Dear Mr. Klinke:

Environmental Forensic Investigations, Inc. (EnviroForensics) is pleased to provide this work scope and cost estimate for additional activities related to the site investigation at the Klinke Cleaners facility located at 2875 University Avenue in Madison, Wisconsin (the Site). The site investigation is being performed in accordance with the requirements of Wisconsin Administrative Code (WAC) Chapter NR 716 and associated rules.

Based on recent email and verbal communications with the Wisconsin Department of Natural Resources (WDNR), it was determined that the Site investigation requirements have been satisfied. Submittal of a final Site Investigation Report, prepared in accordance with NR 716.15, is required prior to case closure consideration.

### PHASE 3 WORK SCOPE

To accommodate our cost and work scope tracking and invoicing procedures, the overall scope of work for this Further Site Investigation (FSI) is designated as Phase 3, with the individual work elements designated as sub-phases. This tracking system allows us to effectively manage all work tasks to meet schedule and budget, and also allows us to fashion detailed invoices, which are required by the Dry Cleaner Environmental Response Fund (DERF). The details of this Work Scope have been discussed with WDNR Project Manager, Mr. Jim Walden.

## Phase 3a: Work Scope Development

EnviroForensics prepared this Work Scope and Cost Estimate to serve as the procedures document and budgetary guide for the activities described below.

Document: 6272-0083

Environmental Forensic Investigations, Inc. N16 W23390 Stone Ridge Drive, Suite G, Waukesha, WI 53188

Phone: 414-982-3988 • Fax 317-972-7875



## Phase 3b: Site Investigation Report

EnviroForensics will prepare a comprehensive Site Investigation Report following the rules set forth in WAC Chapter NR 716.15. As required, the Site Investigation Report will describe the investigation methods, present all data collected to characterize the Site and define the nature and extent of contamination, provide scientifically-sound data interpretations, and recommend that the site investigation be considered complete. The report will include all site investigation data collected to date. Appropriate tables, maps, figures, geologic cross-sections, and attachments will be provided, as required, to effectively present and interpret the findings of the investigation.

## Phase 3c: Case Closure Request

EnviroForensics will prepare a Cost Closure Request (WDNR Form 4400-202) and all required attachments including data tables, maps and figures, and source legal documents. Based on the low concentrations of VOCs detected in Site soil, EnviroForensics anticipates that a soil performance standard (i.e., a surface cap or pavement cover) will not be required for closure. If WDNR does require a soil performance standard, a maintenance plan will be prepared at an additional cost. The budget for this phase of the Work Scope includes case closure fees imposed by WDNR. The fees total \$1350, including \$1050 for review of the closure request and \$300 for inclusion on the GIS Registry for residual soil contamination. These fees are not reimbursable through DERF.

## Phase 3d: Project Management

Project management tasks will include budget management and tracking; management of personnel and scheduling; as well as meetings and conference calls with regulators, clients, and other project stakeholders.

## **SCHEDULE**

The activities described above will be initiated immediately upon approval of this Work Scope. The Site Investigation Report will be submitted to WDNR within six (6) weeks of Work Scope approval. The Case Closure Request will be submitted to WDNR within four (4) weeks of receiving written concurrence with the Site Investigation report. The closure review process will take between 2 and 4 months to complete. EnviroForensics anticipates that Phase 3 of the project will be completed in 5 to 7 months depending on the duration of the closure review.

## PROJECT TEAM

Mr. Brian Kappen, P.G. will manage this project and will serve as the project Hydrogeologist as defined in Wisconsin Administrative Code Chapter NR 712.03(1). Mr. Kappen will also provide



oversight of all project activities as required by NR 712.05. Mr. Wayne Fassbender, P.G., P.M.P. will serve as senior project manager. As required by NR 712, the staff will meet the appropriate professional requirements necessary for each Phase of the project.

## **COST ESTIMATE**

All services provided in support of this proposal will be billed on a time-and-materials basis. The cost estimate to complete this scope of work is \$13,845. Costs are itemized by Phase in **Attachment 1**. The costs have been allocated across the required categories and presented as Change Order #3 on the DERF Reimbursement Cost Detail Linking Spreadsheet, Form 4400-214D, also included in **Attachment 1**. No work will be conducted in excess of the estimated costs per Phase without prior written approval.

We appreciate the opportunity to work with you on this project. If you have any questions regarding the results of this investigation, please do not hesitate to call me at (414) 326-4412.

Sincerely,

**Environmental Forensic Investigations, Inc.** 

Brian Kappen, PG

Boy Tay

Project Manager

Wayne Fassbender, PG, PMP

Senior Project Manager

cc: Jim Walden, Wisconsin Department of Natural Resources

Attachments



## **ATTACHMENT 1**

**Itemized Cost Breakdown Sheets** 

DERF Reimbursement Cost Detail Linking Spreadsheet, Form 4400-214D

Project Title: Project Number/Name:

Date:

Klinke--Campus Change Order #3 BRRTS: 02-13-551964 1/15/2013



PHASE 3a: Work Scope Development Labor - Field Price Subtotal Task Total Sr Project Manager \$0.00 \$170.00 hr Project Manager
Field Professional-Field (prep) \$0.00 \$130.00 hr \$95.00 hr \$95.00 hr \$0.00 Drafting \$0.00 \$60.00 Admin hr \$130.00 Counsel hr \$0.00 hr \$0.00 hr \$0.00 \$0.00 hr \$0.00

Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task Total
Principal	\$185.00	hr		\$0.00	
Sr Project Manager	\$130.00	hr	1.0	\$130.00	
Project Manager	\$130.00	hr	4.0	\$520.00	
Staff Professional-Office	\$95.00	hr		\$0.00	
Field Professional-Office	\$95.00	hr		\$0.00	
Drafting	\$95.00	hr		\$0.00	
Admin	\$60.00	hr	1.0	\$60.00	
Counsel	\$130.00	hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
				\$710.00	\$710.00

Price	Unit	# Units	Markup	Subtotal	Task Total
	LS	1.0	1.15	\$0.00	
	LS	1.0	1.15	\$0.00	
	LS	1.0	1.15	\$0.00	
	LS	1.0	1.15	\$0.00	
	LS	1.0	1.15	\$0.00	
	LS	1.0	1.15	\$0.00	
			1.15	\$0.00	
			1.15	\$0.00	
			1.15	\$0.00	
			1.15	\$0.00	
				\$0.00	\$0.00
	Price	LS LS LS LS LS	LS 1.0 LS 1.0 LS 1.0 LS 1.0 LS 1.0 LS 1.0	LS 1.0 1.15  LS 1.15	LS 1.0 1.15 \$0.00  LS 1.10 1.15 \$0.00  1.15 \$0.00  1.15 \$0.00  1.15 \$0.00  1.15 \$0.00  1.15 \$0.00

Contractor/Consultant - Labora	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	\$83.50	ea		1.15	\$0.00	
Soil VOC 8260 dry wt QA/QC	\$83.50	ea		1.15	\$0.00	
GW VOC 8260	\$70.00	ea		1.15	\$0.00	
GW VOC 8260 QA/QC	\$70.00	ea		1.15	\$0.00	
Air TO-15 Soil Gas	\$200.00	ea		1.15	\$0.00	
Air TO-15 Sub-Slab	\$200.00	ea		1.15	\$0.00	
Air TO-15 Indoor Air	\$200.00	ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
Trip Blank VOCs 8260	\$70.00	ea		1.15	\$0.00	
Level IV QA/QC (15%)			8		\$0.00	
					\$0.00	\$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		1.15	\$0.00	
Meals		LS	1.0	1.15	\$0.00	
Misc Materials		LS	1.0	1.15	\$0.00	
Equipment Rental		LS	1.0	1.15	\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
*					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	\$0.00

	Direct Costs - Chargeable Equipme	_	e (hr/unit)	# Hrs/Units		(day/use)	# days/use	Subtotal	
	Field Vehicle - Full Day	S	20.00		S	130.00			
	Mileage at Federal IRS Reimbursement Ra	S	0.51		•	25.00			
	Air Velocity Meter (per use)				S	25.00			
	Multi-meter Conductivity/pH/Temp/TDS				S	165.00			
	Dissolved Oxygen Meter FID Foxboro/Sensidyne (TIP)				S	40.00 155.00			
					\$	105.00			
Matara	Flow Cell PID or 580 OVM				\$	120.00			
					S	30.00			
	Turbidity Meter ORP Meter	23333			S	30.00			
			Total State of the Control			25.00			
	Air Pump - Low Flow (Barcad)				S				
	Development Pump	0			S	130.00			
	Electric Submersible Pump with Control B				S	130.00			
	Micro Purge Bladder	\$	12.00						
	Peristaltic Pump				S	105.00			
	Pumping Test Accessory Equipment (Flow	\$	100.00		150				
	Portable SVE Unit - 1.5 HP	1000			S	155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flo	-		ultimeter	S	235.00			
	Bailers (Disposable)	S	10.00				South Resident		
	Bailers (Non-Disposable)		A Company		\$	15.00			
ı	Core Boxes	\$	10.00						
ı	Core Sampler				S	55.00			
	Data Logger with Transducer				S	155.00			
1	Well Caps	\$	30.00						
	Elec. Well Sounder (Probe)				S	30.00			
	5035 Sample Kit	S	16.00						
	Field Book	S	11.00						
ı	Filter - Large	\$	18.00						
t	Filter - Small	S	9.00			TO LEGIS			
ı	Generator			Carrio and Ref.	S	105.00			
	Hand Auger				\$	30.00			
	Helium QA/QC Kit	3160			\$	235.00		-	
	Helium QA/QC Accessories	S	20.00		_	200.00			
	Oil/Water Interface Probe	-	20.00		S	105.00			
	Padlocks	S	15.00		150000	103.00			
J-	Steam Cleaner	9000	13.00		S	130.00			
	Transducer (ea)				\$	40.00			
Other	Hand Drill	10.50			\$	75.00			1
- 1	2010/1/09 (PE) (BOD)	6	1.40		3	73.00			
- 1	Tubing - Polypropylene (Teflon): 1/4" OD	_	1.40						
	Tubing - Polypropylene (Teflon): 1/4" ID	\$	1.55						i e
1	Tubing - Polypropylene: 1/4" (per foot)	\$	0.52						
	Tubing - Polypropylene: 1/2" (per foot)	\$	0.78						
	Tubing - Tygon: 3/8" STD (per foot)	\$	4.15						1
	Tubing - Silicone: 3/8" STD (per foot)	S	8.30						
	55-Gallon Drum	S	55.00						
	Vapor Pin Sub-Slab Sampling Port	S	75.00				and the last		l
	Well Cover 8X12"	S	105.00						
	Measuring Wheel				\$	15.00			1
- [	Camera				\$	25.00			1
ı	1L Tedlar Bag	S	20.00						l
	HAZMAT Exemption Shipper	S	40.00						
1	Manometers		\$105.00		900				l
1	Westlaw		\$105.00						
ı	Cones, Baracades & Traffic Signs				\$	10.00			
	Gloves (Chemical Resistant)	S	10.00						
	Level "B": Level "C1" plus SCBA				S	210.00			
	Level "C1": Level "C2" plus Polycoat Suit				\$	85.00			
	Level "C2": Level "D" plus Respirator				S	40.00			
	Standby SCBA				\$	130.00			
ŀ	All routine Level D safety equip, and routin	ne fi	ld equip		\$	130.00			
ŀ	And routine Devel D safety equip, and routin	110	aa equip.		D.	130.00			
	I I by b D's Jan	c	0.00						
	1 Inch Binder	\$	9.00						
	2 Inch Binder	S	12.00						
	3 Inch Binder	\$	15.00						
	4 Inch Binder	\$	22.00						l
	Binder Tabs (Set of 8)	S	5.00						
	Color Copies	\$	0.40	5				\$2.00	l
	B/W Copies	\$	0.25	20				\$5.00	
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Project	Title:
Project	Number/Name:

Project Number/Name: Date: Klinke--Campus Change Order #3 BRRTS: 02-13-551964

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1/15/2013

•					
Labor - Field	Price	Unit	# Units	Subtotal	Task Tota
Sr Project Manager	\$170.00	hr		\$0.00	
Project Manager	\$130.00	hr		\$0.00	
Field Professional-Field (prep)	\$95.00	hr		\$0.00	
Drafting	\$95.00	hr		\$0.00	
Admin	\$60.00	hr		\$0.00	
Counsel	\$130.00	hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
				\$0.00	\$0.00

Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task Tota
Principal	\$185.00	hr	0.5	\$92.50	
Sr Project Manager	\$130.00	hr	4.0	\$520.00	
Project Manager	\$130.00	hr	16.0	\$2,080.00	
Staff Professional-Office	\$95.00	hr		\$0.00	
Field Professional-Office	\$95.00	hr	16.0	\$1,520.00	
Drafting	\$95.00	hr	4.0	\$380.00	
Admin	\$60.00	hr	1.0	\$60.00	
Counsel	\$130.00	hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
				\$4,652.50	\$4,652.50

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Tota
Utility Locate		LS	1.0	1.15	\$0.00	
Driller		LS	1.0	1.15	\$0.00	
Surveyor		LS	1.0	1.15	\$0.00	
Waste Disposal		LS	1.0	1.15	\$0.00	
Historical Database Report		LS	1.0	1.15	\$0.00	
Remediation		LS	1.0	1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
					\$0.00	\$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	\$83.50	ea		1.15	\$0.00	
Soil VOC 8260 dry wt QA/QC	\$83.50	ea		1.15	\$0.00	
GW VOC 8260	\$70.00	ea		1.15	\$0.00	
GW VOC 8260 QA/QC	\$70.00	ea		1.15	\$0.00	
Air TO-15 Soil Gas	\$200.00	ea		1.15	\$0.00	
Air TO-15 Sub-Slab	\$200.00	ea		1.15	\$0.00	
Air TO-15 Indoor Air	\$200.00	ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
Trip Blank VOCs 8260	\$70.00	ea		1.15	\$0.00	
Level IV QA/QC (15%)					\$0.00	
				•	\$0.00	\$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		1.15	\$0.00	
Meals		LS	1.0	1.15	\$0.00	
Misc Materials		LS	1.0	1.15	\$0.00	
Equipment Rental		LS	1.0	1.15	\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	\$0.00

	Direct Costs - Chargeable Equipment Expense	Rate	(hr/unit) 20.00	# Hrs/Units	Rate	(day/use) 130.00	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day Mileage at Federal IRS Reimbursement Rate (over 100 mile		0.51		D.	130.00			
venicies		D.	0.51		S	25.00			
	Air Velocity Meter (per use)				S	165.00			
	Multi-meter Conductivity/pH/Temp/TDS Dissolved Oxygen Meter				S	40.00			
	FID Foxboro/Sensidyne (TIP)				S	155.00			
	Flow Cell				S	105.00			
Meters	PID or 580 OVM		1000000		S	120.00			
					\$	30.00			
	Turbidity Meter	and the same of			_				
	ORP Meter				S	30.00			
	Air Pump - Low Flow (Barcad)				\$	25.00			
	Development Pump				S	130.00			
	Electric Submersible Pump with Control Box (Units)	-			\$	130.00			
	Micro Purge Bladder	\$	12.00						
Pumps	Peristaltic Pump				\$	105.00			
rumps	Pumping Test Accessory Equipment (Flow Meters/Manifol	\$	100.00						
	Portable SVE Unit - 1.5 HP				S	155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Mul	timete	er		S	235.00			
	Bailers (Disposable)	S	10.00						
	Bailers (Non-Disposable)	September 1	14861		S	15.00	and the second discount of the		
	Core Boxes	S	10.00		-	.5.00			
	Core Sampler	-	10.00		S	55.00			l
	Data Logger with Transducer		White-Hard		\$	155.00	-		
		c	20.00		)	155.00			
	Well Caps	S	30.00			20.00			
	Elec. Well Sounder (Probe)	6	1,7,7		\$	30.00			
	5035 Sample Kit	S	16.00						l.
	Field Book	S	11.00						1
	Filter - Large	\$	18.00						
	Filter - Small	\$	9.00						
	Generator			1000	\$	105.00			
	Hand Auger	1 100			\$	30.00			
	Helium QA/QC Kit				S	235.00			
	Helium QA/QC Accessories	S	20.00						
	Oil/Water Interface Probe				S	105.00			
	Padlocks	S	15.00		03176				
	Steam Cleaner	10000	CONTRACTOR		S	130.00			
Other	Transducer (ea)				S	40.00			
Other	Hand Drill				S	75.00			
	A CONTRACTOR OF THE CONTRACTOR		1.40		3	75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	\$	1.40						
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	S	1.55						
	Tubing - Polypropylene: 1/4" (per foot)	S	0.52						
	Tubing - Polypropylene: 1/2" (per foot)	\$	0.78						
	Tubing - Tygon: 3/8" STD (per foot)	S	4.15						
	Tubing - Silicone: 3/8" STD (per foot)	\$	8.30		V-10				
	55-Gallon Drum	\$	55.00						
	Vapor Pin Sub-Slab Sampling Port	S	75.00						
	Well Cover 8X12"	\$	105.00		7000				
	Measuring Wheel				\$	15.00			
	Camera				S	25.00			
	1L Tedlar Bag	S	20.00		3000	or an order			
	HAZMAT Exemption Shipper	S	40.00		1.00				
	Manometers	_	\$105.00						
	Westlaw	_	\$105.00		1000				
			00.001		6	10.00			
	Cones, Baracades & Traffic Signs	-	10.00		S	10.00			
	Gloves (Chemical Resistant)	\$	10.00		-	216			
	Level "B": Level "C1" plus SCBA				S	210.00			
	Level "C1": Level "C2" plus Polycoat Suit				S	85.00			
Safety	Level "C2": Level "D" plus Respirator				S	40.00			
	Standby SCBA				\$	130.00			
	All routine Level D safety equip. and routine field equip.				S	130.00			
	1 Inch Binder	\$	9.00						
	2 Inch Binder	\$	12.00						
	3 Inch Binder	\$	15.00						
	4 Inch Binder	S	22.00						
un die d'									
roduction	Binder Tabs (Set of 8)	\$	5.00	70				620.00	
	Color Copies	\$	0.40	70				\$28.00	
	B/W Copies	\$	0.25	200	100			\$50.00	
	Document - Format/Sending	S	15.00	2				\$30.00	
	Report CD Copy	S	5.00		N. Y	W <sub>2</sub>			
								\$108.00	\$10

Project Title: Project Number/Name:

Klinke--Campus Change Order #3

BRRTS: 02-13-551964





Labor - Field	Price	Unit	# Units	Subtotal	Task Tota
Sr Project Manager	\$170.00	hr		\$0.00	
Project Manager	\$130.00	hr		\$0.00	
Field Professional-Field (prep)	\$95.00	hr		\$0.00	
Drafting	\$95.00	hr		\$0.00	
Admin	\$60.00	hr		\$0.00	
Counsel	\$130.00	hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
				\$0.00	\$0.00

Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task Tota
Principal	\$185.00	hr		\$0.00	
Sr Project Manager	\$130.00	hr	2.0	\$260.00	
Project Manager	\$130.00	hr	16.0	\$2,080.00	
Staff Professional-Office	\$95.00	hr		\$0.00	
Field Professional-Office	\$95.00	hr	16.0	\$1,520.00	
Drafting	\$95.00	hr	6.0	\$570.00	
Admin	\$60.00	hr	1.0	\$60.00	
Counsel	\$130.00	hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
				\$4,490.00	\$4,490.00

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.15	\$0.00	
Driller		LS	1.0	1.15	\$0.00	
Surveyor		LS	1.0	1.15	\$0.00	
Waste Disposal		LS	1.0	1.15	\$0.00	
Historical Database Report		LS	1.0	1.15	\$0.00	
Remediation		LS	1.0	1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
					\$0.00	\$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	\$83.50	ea		1.15	\$0.00	
Soil VOC 8260 dry wt QA/QC	\$83.50	ea		1.15	\$0.00	
GW VOC 8260	\$70.00	ea		1.15	\$0.00	
GW VOC 8260 QA/QC	\$70.00	ea		1.15	\$0.00	
Air TO-15 Soil Gas	\$200.00	ea		1.15	\$0.00	
Air TO-15 Sub-Slab	\$200.00	ea		1.15	\$0.00	
Air TO-15 Indoor Air	\$200.00	ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
Trip Blank VOCs 8260	\$70.00	ea		1.15	\$0.00	
Level IV QA/QC (15%)					\$0.00	
				-	\$0.00	\$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		1.15	\$0.00	
Meals		LS	1.0	1.15	\$0.00	
Misc Materials		LS	1.0	1.15	\$0.00	
Equipment Rental		LS	1.0	1.15	\$0.00	
Closure and GIS Registry Fee	\$1,350.00	LS	1.0	1.00	\$1,350.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
				•	\$1,350.00	\$1,350.00

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	Direct Costs - Chargeable Equipment Expense		te (hr/unit)	# Hrs/Units	_	(day/use)	# days/use	Subtotal
	Field Vehicle - Full Day	S	20.00		\$	130.00		
ehicles	Mileage at Federal IRS Reimbursement Rate (over 100 mil	\$	0.51		•	25.00		
	Air Velocity Meter (per use)				S	25.00		
	Multi-meter Conductivity/pH/Temp/TDS				S	165.00 40.00		
	Dissolved Oxygen Meter FID Foxboro/Sensidyne (TIP)				S	155.00		
	Flow Cell				\$	105.00		
Meters	PID or 580 OVM				S	120.00		
	Turbidity Meter				S	30.00		
	ORP Meter			BOOK SEEDING	S	30.00		
					_	25.00		_
	Air Pump - Low Flow (Barcad)				S			
	Development Pump	10.00			S	130.00		
	Electric Submersible Pump with Control Box (Units)		12.00		S	130.00		
	Micro Purge Bladder	\$	12.00			55,83		
Pumps	Peristaltic Pump				S	105.00		
Lumps	Pumping Test Accessory Equipment (Flow Meters/Manifol	\$	100.00					
	Portable SVE Unit - 1.5 HP	130			S	155.00		
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Mul	time	ter		S	235.00		
	Bailers (Disposable)	\$	10.00					
	Bailers (Non-Disposable)				\$	15.00		
	Core Boxes	\$	10.00				7.10	
	Core Sampler			tegraph resi	S	55.00		
	Data Logger with Transducer				\$	155.00		
	Well Caps	\$	30.00					
	Elec. Well Sounder (Probe)				S	30.00		
	5035 Sample Kit	S	16.00					
	Field Book	\$	11.00					
	Filter - Large	\$	18.00			(II)	240,430	
	Filter - Small	S	9.00					
	Generator			ALVER CON	S	105.00		
	Hand Auger				S	30.00		
	Helium QA/QC Kit				S	235.00		
	Helium OA/OC Accessories	S	20.00		-	200.00		
	Oil/Water Interface Probe	3	20.00		S	105.00		
	Padlocks	\$	15.00		9	105.00		
	Steam Cleaner	Q.	15.00		S	130.00		
Other	Transducer (ea)	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM			\$	40.00		
Other	Hand Drill				\$			
		C	1.40		2	75.00		
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	S	1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	\$	1.55					
	Tubing - Polypropylene: 1/4" (per foot)	S	0.52					
	Tubing - Polypropylene: 1/2" (per foot)	\$	0.78					
	Tubing - Tygon: 3/8" STD (per foot)	\$	4.15			and the second		
	Tubing - Silicone: 3/8" STD (per foot)	\$	8.30		Tey So	35.0		
	55-Gallon Drum	\$	55.00					
	Vapor Pin Sub-Slab Sampling Port	\$	75.00					
	Well Cover 8X12"	\$	105.00					
	Measuring Wheel				S	15.00		
	Camera			37 L 3644	\$	25.00		
	1L Tedlar Bag	\$	20.00					
	HAZMAT Exemption Shipper	\$	40.00		53/18			
	Manometers		\$105.00					
	Westlaw		\$105.00		300			
	Cones, Baracades & Traffic Signs				S	10.00		
	Gloves (Chemical Resistant)	S	10.00					
	Level "B": Level "C1" plus SCBA				\$	210.00		
	Level "C1": Level "C2" plus Polycoat Suit			The second	S	85.00		
Safety	Level "C2": Level "D" plus Respirator				S	40.00		
	Standby SCBA				\$	130.00		
	All routine Level D safety equip. and routine field equip.				S	130.00		
	Salety equip, and routine neid equip.				¥	100.00		
	1 Inch Binder	\$	9.00					
	2 Inch Binder	\$	12.00					
	3 Inch Binder	\$	15.00			A. C.		
	4 Inch Binder	\$	22.00					
oduction	Binder Tabs (Set of 8)	\$	5.00					
Annual de la Contraction de la	Color Copies	S	0.40	25			(R. L.) (P. L.)	\$10.00
	B/W Copies	S	0.25	50	791			\$12.50
	Document - Format/Sending	S	15.00	2	70 PM			\$30.00
	Report CD Copy	S	5.00	<del>-</del>				Q. 0.00
	respon on copy	~	2.00		200			\$52.50
								352.50

DocFind:

Project Title: Project Number/Name: Date:

Klinke--Campus Change Order #3

BRRTS: 02-13-551964

1/15/2013



Labor - Field	Price	Unit	# Units	Subtotal	Task Tota
Sr Project Manager	\$170.00	hr		\$0.00	
Project Manager	\$130.00	hr		\$0.00	
Field Professional-Field (prep)	\$95.00	hr		\$0.00	
Drafting	\$95.00	hr		\$0.00	
Admin	\$60.00	hr		\$0.00	
Counsel	\$130.00	hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
				\$0.00	\$0.00

Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task Tota
Principal	\$185.00	hr		\$0.00	
Sr Project Manager	\$130.00	hr	6.0	\$780.00	
Project Manager	\$130.00	hr	12.0	\$1,560.00	
Staff Professional-Office	\$95.00	hr		\$0.00	
Field Professional-Office	\$95.00	hr		\$0.00	
Drafting	\$95.00	hr		\$0.00	
Admin	\$60.00	hr	2.0	\$120.00	
Counsel	\$130.00	hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
		hr		\$0.00	
				\$2,460.00	\$2,460.00

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Tota
Utility Locate		LS	1.0	1.15	\$0.00	
Driller		LS	1.0	1.15	\$0.00	
Surveyor		LS	1.0	1.15	\$0.00	
Waste Disposal		LS	1.0	1.15	\$0.00	
Historical Database Report		LS	1.0	1.15	\$0.00	
Remediation		LS	1.0	1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				1.15	\$0.00	
				•	\$0.00	\$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	\$83.50	ea		1.15	\$0.00	
Soil VOC 8260 dry wt QA/QC	\$83.50	ea		1.15	\$0.00	
GW VOC 8260	\$70.00	ea		1.15	\$0.00	
GW VOC 8260 QA/QC	\$70.00	ea		1.15	\$0.00	
Air TO-15 Soil Gas	\$200.00	ea		1.15	\$0.00	
Air TO-15 Sub-Slab	\$200.00	ea		1.15	\$0.00	
Air TO-15 Indoor Air	\$200.00	ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
		ea		1.15	\$0.00	
Trip Blank VOCs 8260	\$70.00	ea		1.15	\$0.00	
Level IV QA/QC (15%)					\$0.00	
				•	\$0.00	\$0.0

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		1.15	\$0.00	
Meals		LS	1.0	1.15	\$0.00	
Misc Materials		LS	1.0	1.15	\$0.00	
Equipment Rental		LS	1.0	1.15	\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	\$0.00

DocFind: Page 7

	Direct Costs - Chargeable Equipment Expense		(hr/unit)	# Hrs/Units	_	e (day/use)	# days/use	Subtotal
	Field Vehicle - Full Day	S	20.00		\$	130.00		
ehicles	Mileage at Federal IRS Reimbursement Rate (over 100 mil	S	0.51					
	Air Velocity Meter (per use)				S	25.00		
	Multi-meter Conductivity/pH/Temp/TDS			5 6 10 3 5 1	S	165.00		
	Dissolved Oxygen Meter				S	40.00		
	FID Foxboro/Sensidyne (TIP)				S	155.00		
Meters	Flow Cell				S	105.00		
Meters	PID or 580 OVM				S	120.00		
	Turbidity Meter				S	30.00		
	ORP Meter				\$	30.00		
	Air Pump - Low Flow (Barcad)				S	25.00		
	Development Pump				S	130.00		
	Electric Submersible Pump with Control Box (Units)				S	130.00		
	Micro Purge Bladder	\$	12.00		887E	nd See		
	Peristaltic Pump		No. in the		S	105.00		
Pumps	Pumping Test Accessory Equipment (Flow Meters/Manifol	1 S	100.00					
	Portable SVE Unit - 1.5 HP				S	155.00		
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Mul	timeter			S	235.00		
	Bailers (Disposable)	S	10.00		Service.	233.00		
		٥	10.00		S	15.00		
	Bailers (Non-Disposable)	S	10.00		)	15.00		
	Core Boxes	2	10.00		0	55.00		
	Core Sampler				\$	55.00		
	Data Logger with Transducer	c	20.00		S	155.00		
	Well Caps	S	30.00		C	20.00		
	Elec. Well Sounder (Probe)		16.00		S	30.00		
	5035 Sample Kit	S	16.00					
	Field Book	S	11.00					
	Filter - Large	S	18.00					
	Filter - Small	S	9.00		-	105.00		
	Generator				\$	105.00		
	Hand Auger				S	30.00		
	Helium QA/QC Kit				S	235.00		
	Helium QA/QC Accessories	S	20.00					
	Oil/Water Interface Probe				\$	105.00		
	Padlocks	\$	15.00					
	Steam Cleaner	The Control			S	130.00		
Other	Transducer (ea)				S	40.00		
	Hand Drill				\$	75.00		
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	\$	1.40		-300			
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	\$	1.55					
	Tubing - Polypropylene: 1/4" (per foot)	S	0.52					
	Tubing - Polypropylene: 1/2" (per foot)	\$	0.78					
	Tubing - Tygon: 3/8" STD (per foot)	\$	4.15					
	Tubing - Silicone: 3/8" STD (per foot)	\$	8.30			Year V		
	55-Gallon Drum	\$	55.00			152		
	Vapor Pin Sub-Slab Sampling Port	S	75.00			V 8/10 E		
	Well Cover 8X12"		105.00					
	Measuring Wheel				S	15.00	- CHARLES	
	Camera	92904			S	25.00		
	1L Tedlar Bag	S	20.00		191800			
	HAZMAT Exemption Shipper	S	40.00					
	Manometers Manager 1	_	105.00		A PARTY OF			
	Westlaw	_	105.00		0			
	Cones, Baracades & Traffic Signs	3	. 02.00		C	10.00		
		6	10.00		\$	10.00		
	Gloves (Chemical Resistant)	S	10.00		6	210.00		
	Level "B": Level "C1" plus SCBA				\$	210.00		
0.0	Level "C1": Level "C2" plus Polycoat Suit		A THE STATE OF		\$	85.00		
Safety	Level "C2": Level "D" plus Respirator				\$	40.00		
	Standby SCBA				\$	130.00		
	All routine Level D safety equip. and routine field equip.				\$	130.00		
	1 Inch Binder	\$	9.00					
	2 Inch Binder	S	12.00				7. 1	
	3 Inch Binder	\$	15.00		100	N Taylor		
	4 Inch Binder	S	22.00					
roduction	Binder Tabs (Set of 8)	S	5.00					
	Color Copies	\$	0.40	/		MAG.		
	B/W Copies	S	0.25					
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					PARMINE	THE PERSON NAMED IN	Bay and the same	

DocFind: Page 8

Site Name: Klinke Cleaners University Avenue, Madison

BRRTS #: 02-13-551964
Type of Action: Site Investigations

TASKS						BUDGET										INVO	ICES		
Bid / Budgeted Description	Bid / Budgeted Amount		Change Order #1, 2/15/13			nge Order 12/6/13	Change Order #3, 1/16/14		NSERT	Total Approved Budget		Previous Claims (If applicable)		EnviroForensics, 12751, 8/31/12		viroForensics, 2831, 9/30/12	EnviroForensics, 12899, 10/31/12		nviroForensics, 2960, 11/30/12
Consultant Costs				1945															
Task	\$	-							\$-	\$									
Workplan Development (01a)	\$	3,569.60								S	3,569.60		\$	3,900.70	\$	-	s -	\$	-
Groundwater Pathway Assessment (01b)	\$	1,024.00								S	1,024.00		\$	316.25	\$	1,000.00	s -	\$	-
Vapor Instrusion Pathway Assessment (01c)	S	1,022.50								\$	1,022.50		\$	744	\$	1,239.50	s -	\$	
Sub-Slab Soil Sampling (01d)	\$	931.50								S	931.50		\$	-	\$	688.75	\$ 292.5	0 \$	-
Investigation Derived Media (IDM) Management (01e)	\$	292.50								S	292.50		\$	-	\$	65.00	\$ 97.5	0 \$	-
Data Evaluation & Reporting (01f)	\$	4,657.90								s	4,657.90		\$	-	\$	127.50	\$ 1,007.5	0 \$	2,212.5
Further Site Investigation (Phase 02)																			
Work Plan & Cost Estimate Development (02a)			\$	4,019.50			-			s	4,019.50								
Off-site Access Agreements (02b)			s	2,252.40						s	2,252.40								
Vapor Instrusion Pathway Assessment (02c)			s	3,340.00	S	1,738.75				s	5,078.75		-						
Sub-slab Depressurization System (02d)			\$	2,866.80						S	2,866.80							_	
Monitoring Well Installation & Sampling (02e)			\$	2,737.00						s	2,737.00		1	W					
DM Management (02f)			s	642.50						s	642.50		1					1	
Data Analysis & Reporting (02g)			s	3,979.00	S	280.00				s	4,259.00		1					_	
Project Management (02h)	<del>†                                    </del>		s	1,990.00	S	215.00				s	2,205.00								
Further Site Investigation (Phase 03)	1		-	.,,	_					1	2,200,00		1					1	
Work Scope Development (03a)	-						\$	732.00	-	1	1000000		1					1	
Site Investigation Report (03b)	_						s	4,760.50					+					1	
Case Closure Request (03c)							\$	5,892.50					_		$\overline{}$				
Project Management (03d)							S	2,460.00					1					$\top$	
										s	-		_						
Consultant Cost Total	\$	11,498.00	\$	21,827.20	\$	2,233.75	\$	13,845.00	\$ -	S	35,558.95	\$ -	\$	4,216.95	\$	3,120.75	\$ 1,397.5	0 \$	2,212.5
Sub-Contractor Costs							No.												
Drilling	S	657.00	S	2,634.00		-				s	3,291.00		_		S	439.00		$\top$	
Analytical	s	1,817.00	\$	4,408.50	s	1,000.00				S	7,225.50		1		s	855.00			
SSDS Installer	<u> </u>		S	4,300.00	_	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				s	4,300.00		1		-			_	
Surveyor	1		s	750.00						s	750.00		_	-				_	
Private Utility Locator	1		\$	-						s			1					_	
Waste Disposal	_		s	698.49	-					s	698.49		_					+	
	_	×	Ť	000110						s	-		_					_	
Sub-Contractor Cost Total	s	2,474.00	s	12,790.99	S	1,000.00	\$	8.17	\$ -	\$	16,264.99	\$ -	\$	-	\$	1,294.00	s -	\$	-
DERF ELIGIBLE SUB-TOTALS	\$	13,972.00	\$	34,618.19	\$	3,233.75	\$	13,845.00		\$	51,823.94		\$	4,216.95		4,414.75			2,212.5
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Non-DERF Eligible Expenses																			
													-					+	
Non-DERF Cost Total												\$ -	\$	-	\$		s -	\$	
INVOICE GRAND TOTAL												\$ -	\$	4,216.95	\$	4,414.75	\$ 1,397.5	) \$	2,212.5

EnviroForensics, 13034, 12/31/12	EnviroForensics, 13244, 2/28/13	EnviroForensics, 13348, 3/31/13	,	EnviroForensics, 13442, 4/30/13	EnviroForensi 13528, 5/31/20		EnviroForensics, 13562, 6/30/2013	EnviroForensics, 13659, 7/31/2013		nviroForensics, 3797, 8/31/2013		InviroForensics, 13820, 9/30/2013		viroForensics, 956, 10/31/2013		oviroForensics, 016, 11/30/2013	oForensics, , 12/31/2013	INSER		al Invoice Costs
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422.50		****																	\$	3,770
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## Dry Cleaner Environmental Response Program Reimbursement Cost Detail Linking Spreadsheet Form 4400-214D (R 08/12)

		A CONTRACTOR		DERF	COST BREAK	OU	T (this cla	ıim)							
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	Use	get Remaining (-) to indicate ost over-run	% Task Complete, Remarks		
											\$	-	Task % Complete		
\$	1,300.70		S	1,300.00		\$	1,300.00				\$	(331.10)	100		
\$	1,316.25					L					\$	(292.25)	100		
						\$	1,239.50				\$	(217.00)	100		
\$	981.25										\$	(49.75)	100		
\$	162.50										\$	130.00	100		
\$	2,500.00		_			\$	1,270.00				\$	887.90	100		
			S	1,500.00		\$	2,505.00				\$	14.50	100		
						\$	2,378.60				\$	(126.20)	100		
					S 110 S 110 1 1 1 1 1 1 1 1 1 1 1 1 1 1	s	4,991.50				\$	87.25	100		
						S	2,405.00				S	461.80	100		
			\$	2,321.25		1					\$	415.75	100		
\$	158.30		s	600.00		1					\$	(115.80)	100		
			s	500.00		\$	4,411.07				\$	(652.07)	100		
			\$	500.00		\$	2,374.30				\$	(669.30)	100		
											\$	(456.27)			
S	439.00		\$	2,775.00							s	77.00			
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						s	5,530.00		.,		\$	(1,230.00)			
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			s	350.00							\$	(350.00)			
\$	100.00		\$	598.49							\$				
											\$	1,082.50			
\$	7,143.00	\$ -	\$	10,944.74	\$ -	\$	28,404.97	\$ -	\$ 4,705.00	\$ -	\$	626.23			

## Walden, James E - DNR

From: Brian Kappen < BKappen@enviroforensics.com>

Sent: Monday, December 16, 2013 2:44 PM

**To:** Walden, James E - DNR **Cc:** Wayne Fassbender

**Subject:** FW: 02-13-551964 Klinke - Campus Vapor Intrusion Results

Attachments: 2013-291 Results+COC.pdf; 2013-358 Results+COC.pdf; 2013-391 Results+COC.pdf;

Klinke - Campus Vapor Intrusion Sample Results Summary.pdf

Jim,

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EnviroForensics recently completed confirmation air sampling at the Klinke Cleaners location at 2875 University Ave in Madison. The air samples were collected from the Klinke Cleaners space and an adjoining tenant space (2871 University Ave) currently occupied by Ancora Café. The sampling was conducted to confirm concentrations of trichloroethylene (TCE) in indoor air detected in previous samples. The samples were collected on November 20, 2013.

A summary table of vapor intrusion sample results is attached, along with associated analytical reports. TCE was present in indoor air at the Klinke Cleaners space at a concentration similar to that detected in the initial sample. No compounds of concern were detected in the indoor air sample collected from Ancora Café.

The site owner reported that all TCE-containing chemicals had been removed from the building prior to the November 20, 2013 sampling event. The continuing source of TCE in indoor air is unknown. A sub-slab depressurization system has been operating at the building since May 3, 2013.

Based on the results of the site investigation to date, EnviroForensics recommends proceeding with preparation of an NR 716 Site Investigation Report and pursuing case closure for the site. EnviroForensics also recommends that indoor air monitoring be repeated during the winter months.

Regards,

# Brian Kappen, P.G.

Project Manager

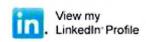
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From: Brian Kappen

Sent: Monday, December 16, 2013 9:29 AM

To: Wayne Fassbender

Subject: 02-13-551964 Klinke - Campus Vapor Intrusion Results

Wayne, please review this draft email to J. Walden:

Jim,

EnviroForensics recently completed confirmation air sampling at the Klinke Cleaners location at 2875 University Ave in Madison. The air samples were collected from the Klinke Cleaners space and an adjoining tenant space (2871 University Ave) currently occupied by Ancora Café. The sampling was conducted to confirm concentrations of trichloroethylene (TCE) in indoor air detected in previous samples. The samples were collected on November 20, 2013.

A summary table of vapor intrusion sample results is attached, along with associated analytical reports. TCE was present in indoor air at the Klinke Cleaners space at a concentration similar to that detected in the initial sample. No compounds of concern were detected in the indoor air sample collected from Ancora Café.

The results of the confirmation air sampling indicate that:

- 1. There is an indoor air source of TCE in the Klinke Cleaners space that has not been identified.
- 2. The sub-slab depressurization system as installed is mitigating vapor intrusion risk to both building spaces.

Based on the results of the site investigation to date, EnviroForensics recommends that an NR 716 Site Investigation Report be prepared and submitted to WDNR for review.

Regards,

# Brian Kappen, P.G.

Project Manager

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# **Table 1**Summary of Vapor Intrusion Sample Results

Klinke Cleaners - Campus Madison, Wisconsin

Sample Address	Sample Identification	Sample Location	Applicable Criteria	Sample Date	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane
		Sub-Slab V	apor Samples				
	Vapor Risk S	creening Level 1			270	16	880
2875 University Ave	6272-SSV-1	Klinke Cleaners	Non-Residential	9/20/2012	300	830	27
2875 University Ave	6272-SSV-2	Klinke Cleaners	Non-Residential	9/20/2012	64	2.6	5.1
2875 University Ave	6272-SSDS STACK	Klinke Cleaners	Non-Residential	11/20/2013	2.28	1.19	NA
		Indoor/Outdo	oor Air Samples				
	Vapor Ac	ction Level 1			27	1.6	88
2875 University Ave	6272-2875 UNIV-OA	Outdoor	Non-Residential	8/21/2013	< 0.46	< 0.20	NA
2875 University Ave	6272-2875 UNIV-OA	Outdoor	Non-Residential	11/20/2013	< 0.47	<0.20	NA
2875 University Ave	6272-2875 UNIV-IA	Klinke Cleaners	Non-Residential	8/21/2013	<0.46	16.1	NA
2875 University Ave	6272-2875 UNIV-IA	Klinke Cleaners	Non-Residential	11/20/2013	0.88	15.6	NA
2871 University Ave	6272-2871-IA	Ancora Café	Non-Residential	10/8/2013	< 0.46	2.2	<9.8
2871 University Ave	6272-2871-IA	Ancora Café	Non-Residential	11/20/2013	< 0.47	<0.2	<9.8

#### Notes:

NA = Not Analyzed

**Bolded** values exceed laboratory detection limits

Bolded and shaded values exceed the Vapor Risk Screening Level or Vapor Action Level



<sup>&</sup>lt;sup>1</sup> The Vapor Risk Screeing Levels and Vapor Action Levels were calculated in accordance with WDNR Publication RR-800 All concentrations reported in units in parts per billion by volume (ppbv)