

October 29, 2019

John Hnat Wisconsin Department of Natural Resources 2300 North Dr. Martin Luther King Jr. Dr. Milwaukee, WI 53202

**Re:** Progress Report and DERF Change Order Request #5

One Hour Martinizing 2262 South 108<sup>th</sup> Street West Allis, Wisconsin BRRTS#: 02-41-246246

Dear Mr. Hnat:

EnviroForensics, LLC is requesting your approval for Change Order #5 to perform some additional work for the One Hour Martinizing (OHM) facility located at 2262 South 108<sup>th</sup> Street in West Allis, Wisconsin. The change order request is in regards to the results of recent investigations performed under Change Order #4 approved by the Wisconsin Department of Natural Resources (WDNR) on October 1, 2019. The results of these investigations and recommendations resulting in this most recent changer order request are presented below.

#### **Investigative Background and Results**

The investigative work was performed per your email request of September 18, 2019 and pertained to assessing the current sub-slab depressurization system (SSDS) that was installed at the neighboring commercial property located at 2248 S. 108<sup>th</sup> Street. You also requested that we assess the current concentrations of chlorinated solvents in the basement foundation sump water and vapor concentrations emanating from that water to determine additional actions needed.

During our SSDS inspection event in July, 2019, high water levels were observed in the granular sub-base of the basement slab which resulted in two (2) of three (3) sub-slab sampling ports to have negligible negative pressure. However, during this inspection, it was discovered that a flexible rubber connector located outside the building and just below the SSDS fan had been displaced. This caused a gap between the connector and the ridged poly-vinyl (PVC) piping and allowed outside air to enter the system. This "short circuiting" of the system reduced the drying effect that the SSDS would have had on the granular, structural, sub-grade material of the



basement slab and would have also effected the venting efficiency of the SSDS. During our July 2019 inspection, the coupler was reattached more securely.

An inspection of the property and SSDS was made on October 16, 2019. Manometer measurements of the negative pressure developed below the basement slab were collected. As can be seen on the attached **Field Documentation**, significant negative pressures were recorded at all three (3) permanent negative pressure measurement points during this inspection that indicate the SSDS is functioning as designed and is preventing sub-slab vapors from entering the building. It appears that our repairs to the external connector have had the desired results and no further repairs to the SSDS system are needed at this time.

During this visit we also sampled both foundation groundwater and vapor within the basement drainage sump. We also inspected the connection of the sump discharge to determine if it was currently connected to either the storm water or sanitary sewer system. We drilled a small hole in the sump to allow tubing to be inserted for the purpose of collecting a water sample with a peristaltic pump and for collecting a vapor sample with a Summa canister (see attached **Field Documentation**). The small hole was sealed with an expandable and removable rubber stopper. As can be seen in attached **Table 1** and **Groundwater Analytical Report Sheets**, concentrations of several chlorinated volatile organic compounds (CVOCs) exceed current NR 140 groundwater quality standards. In addition, as can be seen in attached **Table 2** and **Vapor Analytical Report Sheets**, concentrations of CVOCs detected within the sump vapor exceeded current WDNR vapor risk screening levels (VRSLs) for small commercial and residential structures. Upon inspection, it appears that the sump is currently discharging groundwater to the storm water sewer system.

#### **Recommended Further Actions (Change Order #5)**

An unacceptable condition currently exists regarding discharge of the sump water. The concentrations of CVOCs detected are regulated under the surface water standards in NR 102, NR104, and NR 105 and would require pre-treatment to acceptable standards with discharge permitted under the Wisconsin Pollution Discharge Elimination System (WPDES). It is more cost effective to forego costly pre-treatement with discharge under a WPDES permit and instead discharge directly to the sanitary sewer system under permit of the Milwaukee Metropolitan Sewerage District (MMSD). The services of a local plumber will be employed to make the necessary connection to the sanitary sewer system upon successful permitting of the discharge through the MMSD.

The basement drainage sump was fitted with a vapor tight lid during construction of the SSDS. The lid and all penetrations (sump piping and electrical cord) were sealed with silicone caulk. This sump lid will need to be replaced with a removable one having air-tight seals where it fits



onto the sump crock, and air-tight rubber grommets where piping and the electrical cord exit the lid. In addition, a rubber grommeted port will be installed to allow periodic sampling of the sump water if needed to satisfy MMSD discharge compliance monitoring. Additional maintenance requirements for the sump lid will be added to the SSDS Operations Monitoring & Maintenance (OM&M) Plan. Any MMSD compliance monitoring requirements for discharge will be presented in a separate OM&M Plan for the basement sump.

We have enclosed detailed breakdown sheets that cover the cost of this work which is anticipated at \$7,750.00. We have also enclosed a revised WDNR Form 4400-214D, which includes this additional cost as EnviroForensics Change Order #5.

Please respond to provide your approval. We anticipate 3-4 weeks to complete this work provided that access does not become an issue. You can contact me with any questions at (414) 982-3988, or by email at <a href="mailto:wfassbender@enviroforensics.com">wfassbender@enviroforensics.com</a>.

Sincerely,

**Environmental Forensic Investigations, Inc.** 

Wayne Fassbender, PG

Senior Project Manager

Attachments:

Field Documentation

Table 1—Sump Sample Analytical Results Summary

Groundwater Analytical Results Sheets

Table 2—Vapor Intrusion Analytical Results Summary

Vapor Analytical Results Sheets

**Detailed Cost Breakdown Sheets** 

WDNR Form 4400-214D

Location West Alli	15, WI	Date 9 10	/16/19 103
Project / Client OHM - Lj	ncolh, OC	- <del>11</del>	
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Project Name:	OHM-Lincoln	

Project Number: 6406
Project Address: 2262 S. 108th St.

Project Address: 2262 S. 106<sup>th</sup> St.
Client/Contact: 0XH

Property Address: 2248 5. 108th 67

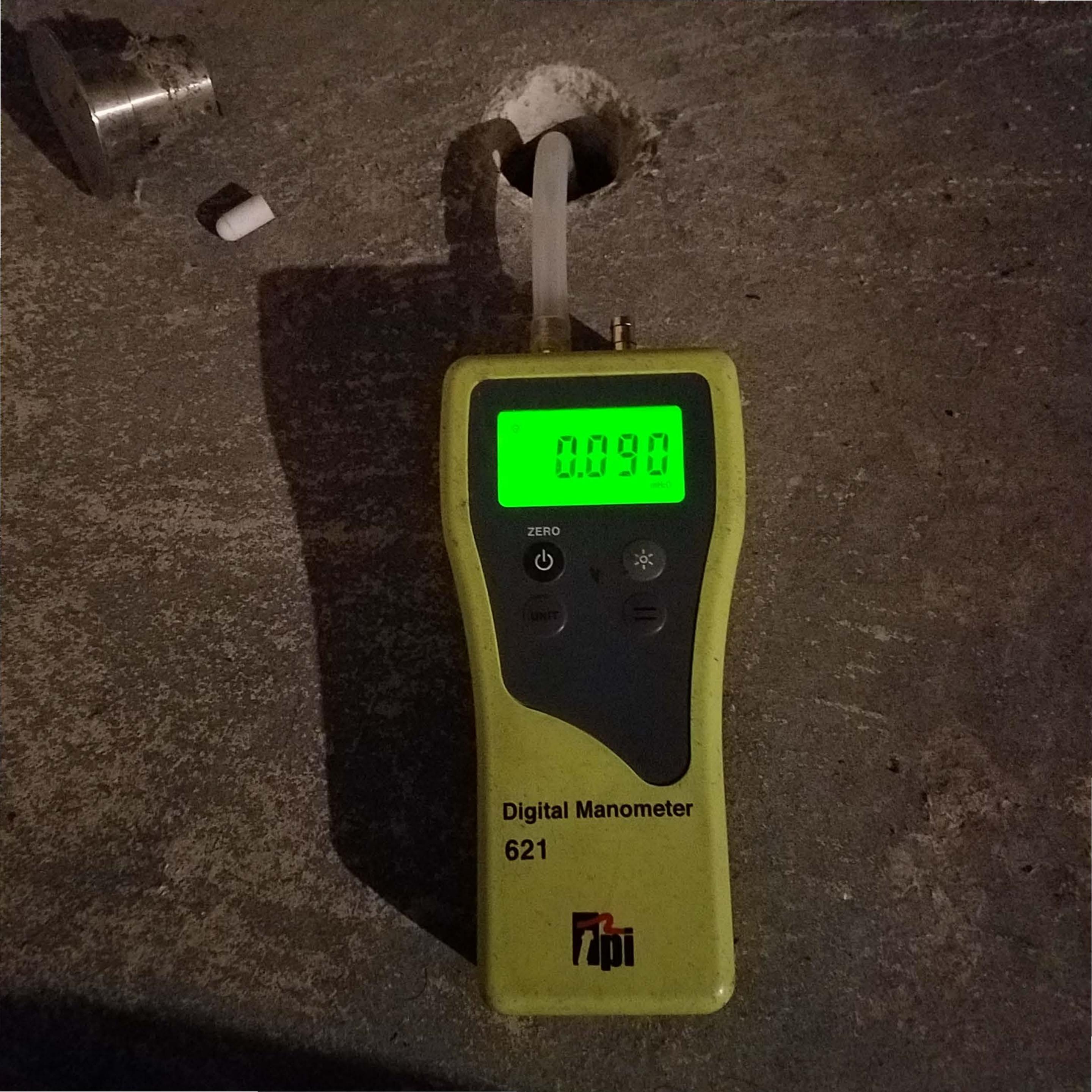
West Allis, WI

Sampler(s): B, Kappen

Cala ID	Conietes ID	Flow Controller	Date Start	Time Start	Date End	Time End	Vacuum	Reading	Negative Pre	ssure Test
Sample ID	Canister ID	ID	mm/dd/yy	hh:mm	mm/dd/yy	hh:mm	Initial in. Hg	Final in. Hg	Induced -15 in Hg and pressure he	
6406-2248-Sump	83948	0052	10/16/19	1450	10/16/19	1455	-27	-3	yes	no
									yes	no
									yes	no
									yes	no
									yes	no
						-	-		yes	no
									yes	no
									yes	no
								-	yes	no

Sample Location Information and Notes:		Wind Direction	Wind Speed	Temperature	Relative Humidity	Barometric Pressure
Stair, ,-at			mph	• F	%	in. of Hg
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1	End					
; )						
Well SUMP	Duplicate ID:					

Sample collected through sealed sump lid using expanding rubber sleave with quick-connect tubing fitting (see photo).













# TABLE 1 SUMP SAMPLE ANALYTICAL RESULTS SUMMARY - 2248 S. 108th STREET

One Hour Martinizing

2262 S. 108th Street, West Allis, Wisconsin

Sample Identification	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	1,1,1-Trichloroethane	Vinyl Chloride
6406-2248-SUMP	9/8/2015	81	<4.7	33	<5.4	<4.8	<6.5	<4.3	<8.4	3.6 J
0400-2248-SUMI	10/16/2019	760	32	520	4.2	0.4 J	1.48	3.2	0.34 J	36
Public Health Enfo	orcement Standard	5	5	70	100	5	7	5	200	0.2
Public Health Prev	entive Action Limit	0.5	0.5	7	20	0.5	0.7	0.5	40	0.02

#### **Notes:**

Only detected compounds are listed

All results reported in units of micrograms per liter ( $\mu$ g/L)

J = Estimated concentration above the method detection limit and below the reporting limit

NA = Not analyzed

**Bolded** values are above method detection limits

**Bolded** and orange shaded values exceed the Enforcement Standard

**Bolded** and blue shaded values exceed the Preventive Action Limit



## Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

BRIAN KAPPEN ENVIROFORENSICS N16 W 23390 STONERIDGE DR WAUKESHA WI 53188

Report Date 22-Oct-19

Project Name OHM-LINCOLN Invoice # E36971

**Project** # 6406 PO#2019-0989

**Lab Code** 5036971A

**Sample ID** 6406-2248-SUMP

**Sample Matrix** Water **Sample Date** 10/16/2019

•	Result	Unit	LOD I	LOQ 1	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/18/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2019	CJR	1
1,2-Dichloroethane	0.4 "J"	ug/l	0.25	0.78	1	8260B		10/18/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2019	CJR	1
1,1-Dichloroethene	1.48	ug/l	0.42	1.34	1	8260B		10/18/2019	CJR	1
cis-1,2-Dichloroethene	520	ug/l	18.5	58	50	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	4.2	ug/l	0.34	1.07	1	8260B		10/18/2019	CJR	1

**Project Name** OHM-LINCOLN **Proiect** # 6406 PO#2019-0989

**Lab Code** 5036971A

**Sample ID** 6406-2248-SUMP

**Sample Matrix** Water **Sample Date** 10/16/2019

	Result	Unit	LOD I	LOQ	Dil	Method	Ext Date	Run Date A	Analyst	Code
1,2-Dichloropropane	3.2	ug/l	0.44	1.39	1	8260B		10/18/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2019	CJR	1
Tetrachloroethene	760	ug/l	19	60.5	50	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2019	CJR	1
1,1,1-Trichloroethane	0.34 "J"	ug/l	0.33	1.05	1	8260B		10/18/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2019	CJR	1
Trichloroethene (TCE)	32	ug/l	0.3	0.94	1	8260B		10/18/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2019	CJR	1
Vinyl Chloride	36	ug/l	0.2	0.65	1	8260B		10/18/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		10/18/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/18/2019	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/18/2019	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		10/18/2019	CJR	1

Project Name OHM-LINCOLN Invoice # E36971
Project # 6406 PO#2019-0989

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Michaelyllul

**Authorized Signature** 

Quote No.:

Lab I.D. #

Account No. :

Project #: 6406



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Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914 920-830-2455 • FAX 920-733-0631

	Sample Handling Request
	Rush Analysis Date Required
R	ushes accepted only with prior authorization)

Normal Turn Around

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Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)	5036971A	6406-2248-Sun	0 10/16/19	9 15K	2	X	N	3		144							T			7	X					117
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Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.

P0# 2019-0989 Standard rate project.

Sample Integrity - To be completed by receiving lab.  Method of Shipment:	Relinquished By: (sign)	1030	10/17/19	Received By: (sign)  Gold Cross	Time 1030	Date 10/17/19
Temp. of Temp. Blank °C On ice: X  Cooler seal intact upon receipt: X Yes No		. \		- T		

# TABLE 2 VAPOR INTRUSION ANALYTICAL RESULTS SUMMARY - 2248 S. 108th STREET

One Hour Martinizing

2262 S. 108th Street, West Allis, Wisconsin

Sample Address	Sample Identification	Sample Location	Applicable Criteria	Date Sampled	Mitigation	Tetrachloroethene	Trichlorethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
			INDOOL	R/ OUTDOOR	AIR					
	Small	Commercial Va	por Action Level			180	8.8	NE	NE	28
	6406-2248-OA-1	Outdoor	NA	4/6/2016	No	<3.96	<3.19	<3.96	<1.07	< 0.64
2248 S. 108th St.	6406-OA-1	Outdoor	NA	7/28/2016	NA	<3.19	<1.07	<19.8	<39.6	<1.28
2246 S. 106th St.	6406-2248-IA-B	Basement	Small Commercial	4/6/2016	No	14.7	<1.07	<3.96	< 0.64	< 0.64
	0400-2248-IA-B	Dasement	Sman Commercial	7/28/2016	Yes	4.34	<1.07	< 3.96	<3.96	< 0.64
			SUB	-SLAB VAPO	R					
	Small Com	mercial Vapor	Risk Screening Level			6,000	290	NE	NE	930
2248 S. 108th St.	Marinello	Basement	Small Commercial	3/2/2012	No	11,000	9,600	6,500	NA	NA
2240 S. 100ul St.	6406-2248-Sump	Sump Basin	Small Commercial	10/16/2019	Yes	52,100	1,670	6,550	<3.96	1,410

#### **Notes:**

Results reported in microgragms per cubic meter (µg/m³)

Analysis performed by Envision Laboratories according to EPA Method TO-15

NE = Not Established

NA = Not Applicable

**Bolded** values are above detection limits

**Bolded** and orange shaded concentrations exceed the applicable non-residential screening level





1441 Sadlier Circle West Drive Indianapolis, IN 46239 Ph: 317-351-0885 Fax: 317-351-0882

www.envision-air.com

Mr. Brian Kappen Enviroforensics N16 W. 23390 Stone Ridge Dr Suite G Waukesha, WI 53188

October 24, 2019

EnvisionAir Project Number: 2019-661 Client Project Name: 6406 / OHM-Lincoln

Dear Mr. Kappen,

Please find the attached analytical report for the samples received October 18, 2019. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Stanly a. Hunnicutt

Project Manager EnvisionAir, LLC



1441 Sadlier Circle West Drive Indianapolis, IN 46239 Ph: 317-351-0885 Fax: 317-351-0882

www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6406 / OHM-LINCOLN

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2019-661

### Sample Summary

Canister Pressure / Vacuum

			START	START							<u>Lab</u>
			Date	Time	End Date	End Time	Date	Time	Initial Field	Final Field	Received
Laboratory Sample Number:	Sample Description:	Matrix:	Collected:	Collected:	Collected:	Collected:	Received:	Received	(in. Hg)	(in. Hg)	(in. Hg)
19-2901	6406-2248-SUMP	Α	10/16/19	14:50			10/18/19	13:30	-27	-3	-3



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Client Name: ENVIROFORENSICS

Project ID: 6406 / OHM-LINCOLN

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2019-661

Analytical Method: TO-15
Analytical Batch: 101819AIR

Client Sample ID: 6406-2248-SUMP Sample Collection START Date/Time: 10/16/19 14:50

Sample Collection END Date/Time:

Envision Sample Number: 19-2901 Sample Received Date/Time: 10/18/19 13:30

Sample Matrix: AIR

Compounds	Sample Results ug/m <sup>3</sup>	Reporting Limit ug/m <sup>3</sup>	<u>Flag</u>
cis-1,2-Dichloroethene	6,550	7930	2,3
Tetrachloroethene	52,100	1280	2
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	1,670	43.0	1
Vinyl Chloride	1,410	51.2	1
4-bromofluorobenzene (surro	ogate) 94%		
Analysis Date/Time:	10-19-19/11:36		
Analyst Initials	tjg		



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Analytical Report

#### **TO-15 Quality Control Data**

EnvisionAir Batch Number: 101819AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	10-18-19/18:43		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD	
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	RPD Flag
Vinyl Chloride	8.38	9.3	10	84%	93%	10.4%
trans-1,2-Dichloroethene	9.58	9.63	10	96%	96%	0.5%
cis-1,2-Dichloroethene	10.1	10.3	10	101%	103%	2.0%
Trichloroethene	10.5	11.1	10	105%	111%	5.6%
Tetrachloroethene	11.3	10.2	10	113%	102%	10.2%
4-bromofluorobenzene (surrogate)	107%	97%				
Analysis Date/Time:	10-18-19/16:55	10-18-19/17:32				
Analyst Initials	tjg	tjg				



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Flag Number	<u>Comments</u>
1	Reported value is from a 40x dilution. TJG 10/23/19
2	Reported value is from a 400x dilution. TJG 10/23/19
3	Reported value is below the reporting limit but above the MDL.
	TJG 10/23/19

## **CHAIN OF CUSTODY RECORD**

EnvisionAir | 1441Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

ENV	ISIONAII	144156	diler Circ	de west i	Drive   In	iuianapu 	)IIS, IIN -	10239	Priorie. (3	017) 331-0603	)   rax. (3	01/) 351-	0882	
Client: EnviroGorensia	c5, LL	P.O. Nu	umber: 2	019-0	987		DEOL	IECTER	PARAME	TEDS				
Report bkorpen & en Address: Forensics-6	nviro		Name or		Y		KEQU	/	/ARAME	/ /				
Address: torens/c5-6	on	640	6 OHM	1-Linco	o/n				Tago /	//_				
Report To: B, Kappe	n	Sample	ed by: B	Kapp	en		/	/ / !	8 /		FI	WW	SIC	NAIR
Phone: 262-745-3		QA/QC	Required:	(circle if appled III Lev	licable) vel IV				///	/ -		4 4 1	310	////////
Invoice Address: account	tspayar	Report ug/m	ing Units r 3 mg/m	needed: (cir	cle) PPMV				//	Sampling Type: Soil-Gas: □ Sub-Slab:		WWW en	vision-air.c	nom
Desired TAT: (Please Circle One			: 1LC = 1 Liter 6LC = 6 Liter	Canister			2/2/			Indoor-Air: □				COIII
1 day 2 days 3 days Std (5	bus. days)	2	TB = Tedlar TD = Therma	al Desorption Tub	e	13	12/				Caniste	r Pressure /	Vacuum	
Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp	Coll. Time (Grab/Comp	Coll. Date (Comp. End)	Coll. Time				Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6404-2248-50mp							X		8394	8 0052	-27	-3	-3	19-2901
6406														
2 2 2													5	
		•												
Comments:	•						-	•		-				
Relino	quished	by:			Date	Ti	me		Rec	eived by:		Da	te	Time



### **CHANGE ORDER #5 COST ESTIMATE**

One Hour Martinizing West Allis, WI

TASK	LABOR COSTS	SUB- CONTRACTOR COSTS	DIRECT COSTS	PHASE COST
	Phase 7a			
Work Scoping	\$930	\$0	\$19	\$949
	Phase 7b			
MMSD Permit, Plumbing, and Sump Lid Install	\$2,040	\$1,000	\$170	\$3,210
	Phase 7c			
Construction Report, OM&M Plan Updates and Project Management	\$3,560	\$0	\$31	\$3,591
TOTAL	\$6,530	\$1,000	\$220	\$7,750

Sump Discharge Modifications 6406 / OHM-West Allis 10/28/2019



#### Phase 7a Work Scoping Labor - Field Price \$200.00 \$175.00 # Units Subtotal \$0.00 Task Total Unit Principal hr Director Sr Project Manager Sr Professional \$0.00 hr \$155.00 \$155.00 \$0.00 hr hr \$0.00 \$0.00 \$0.00 Project Manager \$130.00 hr Project Professional \$130.00 hr Staff Professional-Office \$120.00 hr Staff Professional-Field \$120.00 hr \$0.00 Field Professional \$95.00 hr \$0.00 \$85.00 \$65.00 Drafting hr \$0.00 Admin hr \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task Total
Principal	\$200.00	hr		\$0.00	
Director	\$175.00	hr		\$0.00	
Sr Project Manager	\$155.00	hr	6.0	\$930.00	
Sr Professional	\$155.00	hr		\$0.00	
Project Manager	\$130.00	hr		\$0.00	
Project Professional	\$130.00	hr		\$0.00	
Staff Professional-Office	\$120.00	hr		\$0.00	
Staff Professional-Field	\$120.00	hr		\$0.00	
Field Professional	\$95.00	hr		\$0.00	
Drafting	\$85.00	hr		\$0.00	
Admin	\$65.00	hr		\$0.00	
				\$0.00	
				\$0.00	
				\$0.00	
				\$0.00	
				\$930.00	\$930.00

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task To
Utility Locate		LS		1.00	\$0.00	
Driller		LS		1.00	\$0.00	
Surveyor		LS		1.00	\$0.00	
Waste Disposal		LS		1.00	\$0.00	
WDNR Review Fee		LS		1.00	\$0.00	
Remediation		LS		1.00	\$0.00	
				1.00	\$0.00	
				1.00	\$0.00	
				1.00	\$0.00	
				1.00	\$0.00	
					\$0.00	\$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal
Soil VOC 8260 dry wt	\$71.93	ea		1.00	\$0.00
Soil VOC 8260 dry wt QA/QC	\$71.93	ea		1.00	\$0.00
GW VOC 8260	\$71.93	ea		1.00	\$0.00
GW VOC 8260 QA/QC	\$71.93	ea		1.00	\$0.00
Air TO-15 Soil Gas		ea		1.00	\$0.00
Air TO-15 Sub-Slab	\$40.00	ea		1.00	\$0.00
Air TO-15 Indoor Air	\$110.00	ea		1.00	\$0.00
Air - Indivudual Certification	\$50.00	ea		1.00	\$0.00
Air - Batch Certification	\$35.00	LS		1.00	\$0.00
Trip Blank VOCs 8260	\$71.93	ea		1.00	\$0.00
Level IV QA/QC (15%)					\$0.00
					\$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal
Hotel	\$120.00	day		1.00	\$0.00
Meals	\$60.00	LS		1.00	\$0.00
Misc Materials		LS		1.00	\$0.00
WDNR File Copy		LS		1.00	\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00

Inches   Margan at Forderal IRS Reimburscented Rate (unclosely for aduly see over 20 miles)	/ehicles	Direct Costs - Chargeable Equipment Expense Field Vehicle - Full Day	Rat	te (hr/unit) 20.00	# Hrs/Units	Rat	e (day/use) 130.00	# days/use	Subtotal
Air Velocity Meet per part	cincics	•	,	20.00		Ф	130.00		
Multi-neter Conductivety-PIT-CompTDS Dissolved Oxygen Meter FID Fishers Sendupter (TPP) S 155.00 FID Fishers Sendupter (TPP) S 150.00 FISHER SENDUPTER (TPP)			•	0.56					
Multi-meter ConductivipyII/TempTDS			Ģ	0.50		\$	25.00		
Dissolved Oxygen Meter									
Section   Sect									
Series   S						_			
Turbulary Moter	Meters					\$	30.00		
Dep NAE		PID or 580 OVM				\$	120.00		
Air Pump - Low Flow (Barcat)   S 2500		Turbidity Meter				\$	30.00		
All Pump - Low Flow (Barcal)   S   25.00						\$	175.00		
Development Pump						\$			
Electric Soltmershile Pump with Centrol Box (Units)   S   10.00									
Persistable Planter									
Purpling Text Accessory Equipment (Flow Meters Manifold   100.00						\$	130.00		
Partable SV Link - 15 HP   Partable SV Link - 15 HP   Partable SV Link - 15 HP   Intrinsically Safe Vapor Evacuation Blower   S 125.00   Partable SV Link - 15 HP   S 125.00   Partabl			\$	12.00					
Purtible SVE Unit - 15 FIP   Purtible SVE U	Pumps					\$	105.00		
Intrinsically Safe Vapor Evacuation Blower	т.		\$	100.00					
Peacmanic Low-Flow Sampling Kit w/ Plow Cell and Multimeter   S 270.00									
Multimeter						\$	125.00		
Abestos Sumpling Kit Abestos Sumpling Core Abestos Sumpling Core Bullers (Non-Disposable) Core Boxes Core Boxes S 10.00  Bullers (Non-Disposable) Core Boxes S 10.00  Core Boxes S 10.00  Data Longer with Transducer Well Caps Belix (Well Sounder (Probe) Metal Detector Store Boxes S 10.00  Filter - Small Generator Hand Auger Halmun QA-QC Caxessories Oil-Water Interface Probe Helmun QA-QC Caxessories Oil-Water Interface Probe Padicks Siean Cesser Flag S 18.00  Flag S 10.00									
Asbestos Investigation Supplies Asbestos Investigation Supplies Bailers (Disposable) Bailers (Disposable) Core Boxes S 10.00 Solve Boxes Solve Boxes S 10.00 Solve Boxes Solve Boxes S 10.00 Solve Boxes S 10.						_			
Bailest Objeosable    S   10.00   Bailest (Non-Disposable)   S   10.00   S   15.00   Core Boxes   S   10.00   S   15.00   Core Boxes   S   10.00   S   15.00   Core Boxes   S   10.00   S   15.00   Core Sampler   S   55.00   Data Logger with Transducer   S   50.00   Core Sample Ki   S   10.00   Follow   S   105.00   Core Sample Ki   S   105.00   Co									
Bailers (Desposable)			H			\$	130.00		
Bailers (Non-Disposable)									
Core Boxes			\$	10.00					
Core Sampler				10.00		\$	15.00		
Data Logger with Transducer			\$	10.00		Φ.			
Well Caps		*				_			
Else: Well Sounder (Probe)			_	20.00		\$	155.00		
Metal Detector			\$	30.00		ć	20.00		
Sizemple Kit									
Filed Book   \$ 11.00			6	16.00		\$	50.00		
Filter - Large		*							
Filter - Small									
Generator									<b>-</b>
Hald Auger			3	9.00		4	105.00		
Helium QA/QC Accessories   S 20.00   S 105.00     Patfocks									
Helium QA/QC Accessories						_			
DilWater Interface Probe			\$	20.00		φ	203.00		
Padlocks   S   15,00   S   130,00   Steam Cleaner   S   40,00   Coring Machine   S   200,00   Coring Machine   S   200,00   Tubing Glonded) - Polyethylene (Teflon): 1/4" OD X 3/8" (S   1.50   Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4" (S   1.20   Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" (S   1.20   Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" (S   1.20   Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" (S   1.20   Tubing - Polyethylene: 1/4" OD D (Por Foot)   S   1.10   Tubing - Polyethylene: 1/4" OD (Por Foot)   S   0.60   Tubing - Polyethylene: 1/2" OD (Por Foot)   S   0.85   Tubing - Sticone: 3/8" STD (per foot)   S   4.50   Tubing - Sticone: 3/8" STD (per foot)   S   4.50   Tubing - Sticone: 3/8" STD (per foot)   S   4.50   Tubing - Sticone: 3/8" STD (per foot)   S   5.00   S   5.00   Tubing - Sticone: 3/8" STD (per foot)   S   5.00			φ	20.00		\$	105.00		
Steam Cleaner			\$	15.00		φ	105.00		
Transducer (ea) Coring Machine Rotary Hammer Drill Hand Drill Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" (\$ 1.50 Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4" (\$ 1.20 Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" (\$ 1.20 Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" (\$ 1.20 Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" (\$ 1.25 Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per foot) Tubing - Polyethylene: 1/4" OD (per foot) Tubing - Polyethylene: 3/8" STD (per foot) Tubing - Polyethylene: 3/8" STD (per foot) Tubing - Silcone: 3/8" STD (per foot) Sub-Slab Cover (Stainless Steel) Sub-Slab Cover (Stainless Steel) Sub-Slab Cover (Stainless Steel) Well Cover 8X12" Sub-Slab Cover (Stainless Steel) Sub-Slab Cover Stainless Steel Sub-Slab Cover			φ	15.00		\$	130.00		
Coring Machine   S 200.00   Rotary Hammer Drill   S 170.00   S 170.00   Rotary Hammer Drill   S 170.00   S 170.00   Rotary Hammer Drill   S 170.00   S 170.00   Rotary Hammer Drill   Rotary Hammer Drill   S 1.50   Rotary Hammer Drill   Rotary Hammer Dr						_			
Retary Hammer Drill									
Hand Drill	Other								<b>-</b>
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8"   \$ 1.50   Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4"   \$ 1.20   Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4"   \$ 1.25   Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per f)   \$ 1.10   Tubing - Polyethylene: 1/4" OD (per foot)   \$ 0.60   Tubing - Polyethylene: 1/2" OD (per foot)   \$ 0.60   Tubing - Polyethylene: 1/2" OD (per foot)   \$ 0.85   Tubing - Polyethylene: 1/2" OD (per foot)   \$ 0.85   Tubing - Tygon: 3/8" STD (per foot)   \$ 4.45   Tubing - Tygon: 3/8" STD (per foot)   \$ 4.50   PFA Tubing - 1/2-inch ID   \$ 5.00   S5-Gallon Drum   \$ 55.00   Temporary Sampling Port   \$ 25.00   Vapor Pin Sub-Slab Sampling Port   \$ 75.00   Sub-Slab Cover (Stainless Steel)   \$ 40.00   Well Cover 8X12"   \$ 105.00   Measuring Wheel   \$ 15.00   Manometers   \$ 20.00   Radon Sample Kit   \$ 30.00   HAZMAT Exemption Shipper   \$ 40.00   Manometers   \$ 105.00   Westlaw   \$ 105.00   Westlaw   \$ 105.00   Canera   \$ 50.00   Westlaw   \$ 105.00   Cones, Baracades & Traffic Signs   \$ 90.00   Infety   Cevel "CI" plus SCBA   \$ 10.00   Level "B": Level "CI" plus SCBA   \$ 10.00   Level "CI": Level "CI" plus Respirator   \$ 40.00   Standby SCBA   \$ 10.00   Level "CI": Level "CI" plus Respirator   \$ 40.00   Standby SCBA   \$ 10.00   Inch Binder   \$ 9.00   Inch Bin									
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4"   \$ 1.25   Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (perl   \$ 1.10   Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (perl   \$ 1.10   Tubing - Polyethylene: 1/4" OD (per foot)   \$ 0.60   Tubing - Polyethylene: 1/2" OD (per foot)   \$ 0.60   Tubing - Tygon: 3/8" STD (per foot)   \$ 4.45   Tubing - Tygon: 3/8" STD (per foot)   \$ 4.45   Tubing - Silicone: 3/8" STD (per foot)   \$ 4.50   PFA Tubing - 1/2-inch ID   \$ 5.00   Temporary Sampling Port   \$ 5.00   Sub-Slab Cover (Stainless Steel)   \$ 40.00   Well Cover 8X12"   \$ 105.00   Weaturing Wheel   \$ 15.00   Tubing - Ill Tedlar Bag   \$ 20.00   Radon Sample Kit   \$ 30.00   HAZMAT Exemption Shipper   \$ 40.00   Manometers   \$ 105.00   Westaw   \$ 105.00   Westaw   \$ 105.00   Cones, Baracades & Traffic Signs   \$ 90.00   Cones, Baracades & Traffic Signs   \$ 10.00   Gloves (Chemical Resistant)   \$ 10.00   Level "B": Level "CI" plus SCBA   \$ 12.00   Slandor Sinder   \$ 9.00   Ill nich Binder   \$ 9.00   Ill nich Binder   \$ 9.00   Ill nich Binder   \$ 12.00   Slandor Signer   \$ 10.00   S			s	1.50		Ψ	75.00		
Tubing (Bonded) - Polyethylene (Teflon) : 1/16" OD X 1/4" \$ 1.25									
Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per f S 1.10									
Tubing - Polyethylene: 1/4" OD (per foot)									
Tubing - Polyethylene: 1/2" OD (per foot)									
Tubing - Tygon: 3/8" STD (per foot) Tubing - Silicone: 3/8" STD (per foot) S			_						
Tubing - Silicone: 3/8" STD (per foot) \$ 4.50   PFA Tubing - 1/2-inch ID \$ 5.00    FFA Tubing - 1/2-inch ID \$ 5.50.0    Temporary Sampling Port \$ 5.50.0    Vapor Pin Sub-Slab Sampling Port \$ 75.00    Sub-Slab Cover (Stainless Steel) \$ 40.00    Well Cover 8X12" \$ 105.00    Measuring Wheel \$ 15.00    Camera \$ 25.00    IL Tedlar Bag \$ 20.00    Radon Sample Kit \$ 30.00    HAZMAT Exemption Shipper \$ 40.00    Westlaw \$ 105.00    Westlaw \$ 105.00    Candrain/graphics \$ 90.00    Cones, Baracades & Traffic Signs \$ 10.00    Gloves (Chemical Resistant) \$ 10.00    Level "B": Level "C1" plus SCBA   \$ 210.00    Level "C2": Level "C2" plus Polycoat Suit   \$ 85.00    Level "C1": Level "C2" plus Polycoat Suit   \$ 85.00    Inch Binder \$ 10.00									
PFA Tubing - 1/2-inch ID									
S5-Gallon Drum									
Vapor Pin Sub-Slab Sampling Port   \$ 75.00   Sub-Slab Cover (Stainless Steel)   \$ 40.00   Sub-Slab Cover (Stainless Steel)   \$ 15.00   Sub-Slab Cover (Stainless Steel)   \$ 105.00   Sub-Slab Cover (Stainless Steel)   \$ 105.00   Sub-Slab Cover (Stainless Steel)   \$ 10.00   Sub-Slab Cover (S			\$						
Vapor Pin Sub-Slab Sampling Port   \$ 75.00   Sub-Slab Cover (Stainless Steel)   \$ 40.00   Sub-Slab Cover (Stainless Steel)   \$ 15.00   Sub-Slab Cover (Stainless Steel)   \$ 105.00   Sub-Slab Cover (Stainless Steel)   \$ 105.00   Sub-Slab Cover (Stainless Steel)   \$ 10.00   Sub-Slab Cover (S			\$	25.00					
Sub-Slab Cover (Stainless Steel)   \$ 40.00			\$	75.00					
Well Cover 8X12"         \$ 105.00           Measuring Wheel         \$ 15.00           Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00           Manometers         \$ 105.00           Westlaw         \$ 105.00           CAD/drafting/graphics         \$ 90.00           Cones, Baracades & Traffic Signs         \$ 10.00           Gloves (Chemical Resistant)         \$ 10.00           Level "B"; Level "C1" plus SCBA         \$ 210.00           Level "C2": Level "C2" plus Polycoat Suit         \$ 85.00           Level "C2": Level "D" plus Respirator         \$ 40.00           Standby SCBA         \$ 130.00           Routine Field and Safety Equipment         \$ 50.00           1 Inch Binder         \$ 15.00           3 Inch Binder         \$ 15.00           4 Inch Binder         \$ 22.00           4 Inch Binder         \$ 5.00           Color Copies         \$ 0.40           BW Copies         \$ 0.25           Document - Format/Sending         \$ 15.00			\$						
Camera			\$	105.00					
IL Tedlar Bag		The same of				do .	15.00		
Radon Sample Kit									
HAZMAT Exemption Shipper   \$ 40.00		Camera					25.00		
Manometers   \$ 105.00		Camera					25.00		
Westlaw		Camera IL Tedlar Bag Radon Sample Kit	\$	30.00			25.00		
CAD/drafting/graphics   \$ 90.00		Camera IL Tedlar Bag Radon Sample Kit	\$	30.00 40.00			25.00		
Cones, Baracades & Traffic Signs   \$ 10.00		Camera II. Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper	\$	30.00 40.00 105.00			25.00		
Gloves (Chemical Resistant)   \$ 10.00		Camera  IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw	\$ \$ \$	30.00 40.00 105.00 105.00			25.00		
Level "B": Level "C1" plus SCBA		Camera  IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw	\$ \$ \$	30.00 40.00 105.00 105.00			25.00		
Level "C1": Level "C2" plus Polycoat Suit   \$ 85.00		Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics	\$ \$ \$	30.00 40.00 105.00 105.00		\$			
Level "C1": Level "C2" plus Polycoat Suit   \$ 85.00		Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs	\$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00		\$			
Level "C2": Level "D" plus Respirator		Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C!" plus SCBA	\$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00		\$	10.00		
Standby SCBA   \$ 130.00     Routine Field and Safety Equipment   \$ 50.00     1 Inch Binder   \$ 12.00     2 Inch Binder   \$ 15.00     4 Inch Binder   \$ 22.00     5 Inder   \$ 20.00     6 Inder   \$ 20.00     7 Inder   \$ 20.00     8 Inder   \$ 20.00     9 Inder   \$ 20.00     10 Inder   \$ 20.00     20	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit	\$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00		\$	10.00		
Routine Field and Safety Equipment   \$ 50.00	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit	\$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00		\$ \$ \$	10.00 210.00 85.00		
1 Inch Binder   \$ 9.00	Safety	Camera  IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D1" plus Respirator	\$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00		\$ \$ \$ \$	10.00 210.00 85.00 40.00		
2 Inch Binder     \$ 12.00       3 Inch Binder     \$ 15.00       4 Inch Binder     \$ 22.00       duction     \$ 5.00       Color Copies     \$ 0.40       BiW Copies     \$ 0.25       Document - Format/Sending     \$ 15.00       Report CD Copy     \$ 5.00	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA	\$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
3 Inch Binder   \$ 15.00	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment	\$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
4 Inch Binder     \$ 22.00       Binder Tabs (Set of 8)     \$ 5.00       Color Copies     \$ 0.40     10     \$ 4.00       B/W Copies     \$ 0.25       Document - Format/Sending     \$ 15.00     1     \$ 15.00       Report CD Copy     \$ 5.00	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment I Inch Binder	\$ \$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00 10.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
Color Copies         \$ 0.40         10         \$ 4.00           B/W Copies         \$ 0.25         \$           Document - Format/Sending         \$ 15.00         1         \$ 15.00           Report CD Copy         \$ 5.00         \$	Safety	Camera  IL Tedlar Bag Radon Sample Kit  HAZMAT Exemption Shipper  Manometers  Westlaw  CAD/drafting/graphics  Cones, Baracades & Traffic Signs  Gloves (Chemical Resistant)  Level "B": Level "C1" plus SCBA  Level "C1": Level "C2" plus Polycoat Suit  Level "C2": Level "D" plus Respirator  Standby SCBA  Routine Field and Safety Equipment  I Inch Binder  2 Inch Binder	\$ \$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00 10.00 9.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
Color Copies         \$ 0.40         10         \$ 4.00           B/W Copies         \$ 0.25         \$           Document - Format/Sending         \$ 15.00         1         \$ 15.00           Report CD Copy         \$ 5.00         \$	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment I Inch Binder 2 Inch Binder 3 Inch Binder	\$ \$ \$ \$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00 10.00 9.00 12.00 15.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
B/W Copies \$ 0.25  Document - Format/Sending \$ 15.00 1 \$ 15.00  Report CD Copy \$ 5.00		Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C": "plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment I Inch Binder 2 Inch Binder 4 Inch Binder 4 Inch Binder	\$ \$ \$ \$ \$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00 10.00 9.00 12.00 15.00 22.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
Document - Format/Sending         \$ 15.00         1         \$ 15.00           Report CD Copy         \$ 5.00         \$ 15.00	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment I Inch Binder 2 Inch Binder 3 Inch Binder 4 Inch Binder Binder Tabs (Set of 8)	\$ \$ \$ \$ \$ \$ \$ \$ \$	30.00 40.00 105.00 105.00 90.00 10.00 9.00 12.00 15.00 22.00 5.00	10	\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		\$ 4.00
Report CD Copy \$ 5.00	Safety	Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment I Inch Binder I Inch Binder I Inch Binder I Inch Binder Binder Tabs (Set of 8) Color Copies	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	9.00 105.00 90.00 105.00 90.00 10.00 10.00 10.00 10.00 12.00 12.00 12.00 22.00 0.40	10	\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		\$ 4.00
		Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C"   Plus SCBA Level "CI": Level "C"   Plus Polycoat Suit Level "C": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment I Inch Binder 2 Inch Binder 4 Inch Binder 4 Inch Binder Binder Tabs (Set of 8) Color Copies BW Copies	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	9.00 105.00 105.00 90.00 10.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
4.5.00		Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment 1 Inch Binder 2 Inch Binder 3 Inch Binder 4 Inch Binder Binder Tabs (Set of 8) Color Copies BaW Copies Document - Format/Sending	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	30.00 40.00 105.00 90.00 90.00 10.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		
PHASE TOTAL		Camera IL Tedlar Bag Radon Sample Kit HAZMAT Exemption Shipper Manometers Westlaw CAD/drafting/graphics Cones, Baracades & Traffic Signs Gloves (Chemical Resistant) Level "B": Level "C1" plus SCBA Level "C1": Level "C2" plus Polycoat Suit Level "C2": Level "D" plus Respirator Standby SCBA Routine Field and Safety Equipment 1 Inch Binder 2 Inch Binder 3 Inch Binder 4 Inch Binder Binder Tabs (Set of 8) Color Copies BaW Copies Document - Format/Sending	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	30.00 40.00 105.00 90.00 90.00 10.00		\$ \$ \$ \$ \$	10.00 210.00 85.00 40.00 130.00		\$ 15.00

Date:

Sump Discharge Modifications 6406 / OHM-West Allis 10/28/2019



#### Phase 7b MMSD Permit, Plumbing, and Sump Lid Install Labor - Field Price \$200.00 # Units Subtotal \$0.00 Unit Task Total Principal hr \$175.00 \$0.00 Director hr \$155.00 \$155.00 \$0.00 Sr Project Manager hr Sr Professional hr \$0.00 \$0.00 \$0.00 Project Manager \$130.00 hr Project Professional \$130.00 hr Staff Professional-Office \$120.00 hr Staff Professional-Field \$120.00 hr \$0.00 \$570.00 Field Professional \$95.00 hr 6.0 \$85.00 \$65.00 Drafting hr \$0.00 Admin hr \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$570.00 \$570.00

Labor - Office/Reporting	Price	Unit	# Units	Subtotal	Task T
Principal	\$200.00	hr		\$0.00	
Director	\$175.00	hr		\$0.00	
Sr Project Manager	\$155.00	hr		\$0.00	
Sr Professional	\$155.00	hr	2.0	\$310.00	
Project Manager	\$130.00	hr		\$0.00	
Project Professional	\$130.00	hr	6.0	\$780.00	
Staff Professional-Office	\$120.00	hr		\$0.00	
Staff Professional-Field	\$120.00	hr		\$0.00	
Field Professional	\$95.00	hr	4.0	\$380.00	
Drafting	\$85.00	hr		\$0.00	
Admin	\$65.00	hr		\$0.00	
				\$0.00	
				\$0.00	
				\$0.00	
				\$0.00	
				\$1,470.00	\$1,470

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Tota
Utility Locate		LS		1.00	\$0.00	
Driller		LS		1.00	\$0.00	
Surveyor		LS		1.00	\$0.00	
Waste Disposal		LS		1.00	\$0.00	
WDNR Review Fee		LS		1.00	\$0.00	
Remediation		LS		1.00	\$0.00	
Plumber	\$1,000.00	LS	1.0	1.00	\$1,000.00	
				1.00	\$0.00	
				1.00	\$0.00	
				1.00	\$0.00	
					\$1,000.00	\$1,000.0

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal
Soil VOC 8260 dry wt	\$71.93	ea		1.00	\$0.00
Soil VOC 8260 dry wt QA/QC	\$71.93	ea		1.00	\$0.00
GW VOC 8260	\$71.93	ea		1.00	\$0.00
GW VOC 8260 QA/QC	\$71.93	ea		1.00	\$0.00
Air TO-15 Soil Gas		ea		1.00	\$0.00
Air TO-15 Sub-Slab	\$110.00	ea		1.00	\$0.00
Air TO-15 Indoor Air	\$110.00	ea		1.00	\$0.00
Air - Indivudual Certification	\$50.00	ea		1.00	\$0.00
Air - Batch Certification	\$35.00	LS		1.00	\$0.00
Trip Blank VOCs 8260	\$71.93	ea		1.00	\$0.00
•					\$0.00
					\$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal
Hotel	\$120.00	day		1.00	\$0.00
Meals	\$60.00	LS		1.00	\$0.00
Misc Materials		LS		1.00	\$0.00
WDNR File Copy		LS		1.00	\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
	<u> </u>				\$0.00

Direct Costs - Chargeable Equipment Expense	ubtotal
Vehicles Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles) \$ 0.56 \$ Air Velocity Meter (per use) \$ 25.00	120.00
daily use over 230 miles) \$ 0.56     Air Velocity Meter (per use)   \$ 25.00	120.00
Air Velocity Meter (per use) \$ 25.00	
Dissolved Oxygen Meter \$ 40.00	
FID Foxboro/Sensidyne (TIP) \$ 155.00	
Meters Flow Calibrator \$ 30.00	
PID or 580 OVM \$ 120.00	
Turbidity Meter \$ 30.00	
ppb RAE         \$ 175.00           ORP Meter         \$ 30.00	
Air Pump - Low Flow (Barcad) \$ 25.00	
Development Pump \$ 130.00	
Electric Submersible Pump with Control Box (Units) \$ 130.00	
Low-Flow Sampling Bladder \$ 12.00	
Peristaltic Pump \$ 30.00	
Pumps Pumping Test Accessory Equipment (Flow Meters/Manifold \$ 100.00	
Portable SVE Unit - 1.5 HP \$ 155.00	
Intrinsically Safe Vapor Evacuation Blower \$ 125.00	
Pneumatic Low-Flow Sampling Kit w/ Flow Cell and	
Multimeter \$ 270.00	
Asbestos Sampling Kit \$ 250.00	
Asbestos Investigation Supplies \$ 130.00 Asbestos Sampling Core \$ 2.50	
Assessos Sampling Core \$ 2.30  Bailers (Disposable) \$ 10.00	
Bailers (Non-Disposable) \$ 15.00	
Core Boxes \$ 10.00	
Core Sampler \$ 55.00	
Data Logger with Transducer \$ 155.00	
Well Caps \$ 30.00	
Elec. Well Sounder (Probe) \$ 30.00	
Metal Detector \$ 50.00	
5035 Sample Kit \$ 16.00 Field Book \$ 11.00	
Filter - Large \$ 18.00	
Filter - Small \$ 9.00	
Generator \$ 105.00	
Hand Auger \$ 30.00	
Helium QA/QC Kit \$ 265.00	
Helium QA/QC Accessories \$ 20.00	
Oil/Water Interface Probe \$ 105.00	
Padlocks \$ 15.00	
Steam Cleaner \$ 130.00	
Transducer (ea) \$ 40.00	
Other   Coring Machine   \$ 200.00	
Rotary Hammer Drill \$ 170.00 Hand Drill \$ 75.00	
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" (\$ 1.50	
Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4" (\$ 1.20	
Tubing (Bonded) - Polyethylene (Teflon) : 1/16" OD X 1/4" \$ 1.25	
Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per f \$ 1.10	
Tubing - Polyethylene: 1/4" OD (per foot) \$ 0.60	
Tubing - Polyethylene: 1/2" OD (per foot) \$ 0.85	
Tubing - Tygon: 3/8" STD (per foot) \$ 4.45	
Tubing - Silicone: 3/8" STD (per foot) \$ 4.50	
PFA Tubing - 1/2-inch ID \$ 5.00	
55-Gallon Drum         \$ 55.00           Temporary Sampling Port         \$ 25.00	
Vapor Pin Sub-Slab Sampling Port \$ 25.00	
Sub-Slab Cover (Stainless Steel) \$ 40.00	
Well Cover 8X12" \$ 105.00	
Measuring Wheel \$ 15.00	
Measuring Wheel         \$ 15.00           Camera         \$ 25.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00	
Camera         \$ 25.00           1L Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00           Manometers         \$ 105.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00           Manometers         \$ 105.00           Westlaw         \$ 105.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00           Manometers         \$ 105.00           Westlaw         \$ 105.00           CAD/drafting/graphics         \$ 90.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00           Manometers         \$ 105.00           Westlaw         \$ 105.00           CAD/drafting/graphics         \$ 90.00           Cones, Baracades & Traffic Signs         \$ 10.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00           Manometers         \$ 105.00           Westlaw         \$ 105.00           CAD/drafting/graphics         \$ 90.00           Cones, Baracades & Traffic Signs         \$ 10.00           Gloves (Chemical Resistant)         \$ 10.00	
Camera         \$ 25.00           IL Tedlar Bag         \$ 20.00           Radon Sample Kit         \$ 30.00           HAZMAT Exemption Shipper         \$ 40.00           Manometers         \$ 105.00           Westlaw         \$ 105.00           CAD/drafting/graphics         \$ 90.00           Cones, Baracades & Traffic Signs         \$ 10.00           Gloves (Chemical Resistant)         \$ 10.00           Level "B": Level "C1" plus SCBA         \$ 210.00	
Camera   \$ 25.00     IL Tedlar Bag   \$ 20.00     Radon Sample Kit   \$ 30.00     HAZMAT Exemption Shipper   \$ 40.00     Manometers   \$ 105.00     Westlaw   \$ 105.00     CAD/drafting/graphics   \$ 90.00     Cones, Baracades & Traffic Signs   \$ 10.00     Level "C1": Level "C2" plus SCBA   \$ 210.00     Level "C1": Level "C2" plus Polycoat Suit   \$ 85.00	
Camera   \$ 25.00     IL Tedlar Bag   \$ 20.00     Radon Sample Kit   \$ 30.00     HAZMAT Exemption Shipper   \$ 40.00     Manometers   \$ 105.00     Westlaw   \$ 105.00     CAD/drafting/graphics   \$ 90.00     Cones, Baracades & Traffic Signs   \$ 10.00     Level "B": Level "C2" plus SCBA   \$ 210.00     Level "C1": Level "C2" plus Polycoat Suit   \$ 85.00	
Camera	50.00
Camera   \$ 25.00	50.00
Camera   S 25.00	50.00
Camera	50.00
Camera   S 25.00	50.00
Camera   S   25.00	50.00
Camera   S 25.00   S 25.	50.00
Camera   S 25.00   S 25.00   Camera   S 25.00   Camera   S 20.00   C	50.00
Camera   S   25.00	50.00
Camera   S   25.00	
Camera	50.00

Sump Discharge Modifications

6406 / OHM-West Allis

Date: 10/28/2019





	7c Constructi	ion report				
Labor - Field	Price	Unit	# Units		Subtotal	Task To
Principal	\$200.00	hr			\$0.00	
Director	\$175.00	hr			\$0.00	
Sr Project Manager	\$155.00	hr			\$0.00	
Sr Professional	\$155.00	hr			\$0.00	
Project Manager	\$130.00	hr			\$0.00	
Project Professional	\$130.00	hr			\$0.00	
Staff Professional-Office	\$120.00	hr			\$0.00	
Staff Professional-Field	\$120.00	hr			\$0.00	
Field Professional	\$95.00	hr			\$0.00	
Drafting	\$85.00	hr			\$0.00	
Admin	\$65.00	hr			\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	\$0.00
Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task To
Principal	\$200.00	hr	" Onto		\$0.00	1 ask 10
Director	\$175.00	hr	t		\$0.00	
Sr Project Manager	\$175.00	hr	t		\$0.00	
Sr Professional	\$155.00	hr	6.0		\$930.00	
Project Manager	\$130.00	hr	16.0		\$2,080.00	
Project Professional	\$130.00	hr	10.0		\$0.00	
Staff Professional-Office	\$120.00	hr			\$0.00	
Staff Professional-Field	\$120.00	hr			\$0.00	
Field Professional	\$95.00		4.0		\$380.00	
Drafting Drafting	\$85.00	hr			\$170.00	
Ü		hr	2.0		\$0.00	
Admin	\$65.00	hr			\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
						\$3,560.0
					\$0.00 \$0.00 \$3,560.00	
Contractors/Consultants	Price	Unit	# Units	Markup	\$0.00 \$0.00 \$3,560.00 Subtotal	
Utility Locate	Price	LS	# Units	1.00	\$0.00 \$0.00 \$3,560.00 Subtotal \$0.00	
Utility Locate Driller	Price	LS LS	# Units	1.00 1.00	\$0.00 \$0.00 \$3,560.00 <b>Subtotal</b> \$0.00 \$0.00	
Utility Locate Driller Surveyor	Price	LS LS LS	# Units	1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal	Price	LS LS LS	# Units	1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee	Price	LS LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 Subtotal \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal	Price	LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee	Price	LS LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee	Price	LS LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee	Price	LS LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee	Price	LS LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee	Price	LS LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation		LS LS LS LS LS LS LS LS LS		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$3,560.0 Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee	Price  Price \$71.93	LS LS LS LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt	Price	LS LS LS LS LS LS US US US US		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC	Price \$71.93 \$71.93	LS LS LS LS LS LS LS CS LS LS LS LS LS		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260	Price \$71.93 \$71.93	LS LS LS LS LS LS LS CS LS LS LS LS LS LS		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 QA/QC	Price \$71.93 \$71.93	LS LS LS LS LS LS LS LS LS ca ca ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW OC 8260	Price \$71.93 \$71.93 \$71.93 \$71.93	LS LS LS LS LS LS LS ex LS		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 Air TO-15 - Soil Gas Air TO-15 - Sub-Slab	Price \$71.93 \$71.93 \$71.93 \$71.93 \$40.00	LS LS LS LS LS LS LS LS ca ca ca ca ca ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW	Price \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00	LS LS LS LS LS LS LS LS ca ca ca ca ca ca ca		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3.560.00 \$3.560.00 \$	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air Indivudual Certification	Price \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00	LS LS LS LS LS LS LS LS ex LS		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 GW TO-15 - Soil Gas Air TO-15 - Sub-Slab Air TO-15 - Indoor Air Air - Indivudual Certification Air - Batch Certification	Price \$71.93 \$71.93 \$71.93 \$71.93 \$110.00 \$110.00 \$50.00 \$33.00	LS L		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VQ ROC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Soil Gas Air TO-15 Indoor Air Air - Batch Certification Air - Batch Certification Trip Blank VOCs 8260 Torsel Survey Soil VOCS 8260 Trip Blank VOCs 8260 Trip Blank VOCs 8260	Price \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00	LS LS LS LS LS LS LS LS ex LS		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3.560.00 \$3.560.00 \$	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 GW TO-15 - Soil Gas Air TO-15 - Sub-Slab Air TO-15 - Indoor Air Air - Indivudual Certification Air - Batch Certification	Price \$71.93 \$71.93 \$71.93 \$71.93 \$110.00 \$110.00 \$50.00 \$33.00	LS L		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 GW TO-15 - Soil Gas Air TO-15 - Sub-Slab Air TO-15 - Indoor Air Air - Indivudual Certification Air - Bath Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)	\$71.93 \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$50.00 \$35.00 \$71.93	LS L		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses	Price \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$53.00 \$71.93	LS L		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3.560.00 \$3.560.00 \$	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 dry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel	Price \$71.93 \$71.93 \$71.93 \$71.93 \$10.00 \$10.00 \$50.00 \$35.00 \$71.93	LS L	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals	Price \$71.93 \$71.93 \$71.93 \$71.93 \$40.00 \$110.00 \$53.00 \$71.93	LS L	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$0.0	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 dry wt QA/QC GW VOC 8260 QA/QC Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel	Price \$71.93 \$71.93 \$71.93 \$71.93 \$10.00 \$10.00 \$50.00 \$35.00 \$71.93	LS L	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3,560.00 \$3,560.00 \$	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 Air TO-15 Soil Gas Air TO-15 Sub-Slab Air TO-15 Indoor Air Air - Indivudual Certification Air - Batch Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals	Price \$71.93 \$71.93 \$71.93 \$71.93 \$10.00 \$10.00 \$50.00 \$35.00 \$71.93	LS Unit ea ea ea ea ea ea ea ea ea ta LS ca Unit LS	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3.560.00  Subtotal \$0.00	Task To
Utility Locate Driller Surveyor Waste Disposal WDNR Review Fee Remediation  Contractor/Consultant - Laboratory Soil VOC 8260 dry wt Soil VOC 8260 dry wt QA/QC GW VOC 8260 GW VOC 8260 GW VOC 8260 GW VOC 8260 GW TO-15 - Soil Gas Air TO-15 - Sub-Slab Air TO-15 - Indoor Air Air - Indivudual Certification Air - Indivudual Certification Trip Blank VOCs 8260 Level IV QA/QC (15%)  Direct Costs - Expenses Hotel Meals Misc Materials	Price \$71.93 \$71.93 \$71.93 \$71.93 \$10.00 \$10.00 \$50.00 \$35.00 \$71.93	LS L	# Units	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	\$0.00 \$0.00 \$3.560.00 \$0	Task To

\$0.00 \$0.00 \$0.00 \$0.00

\$0.00

	Direct Costs - Chargeable Equipment Expense		e (hr/unit)	# Hrs/Units		te (day/use)	# days/use	Subtotal
V-1: 1	Field Vehicle - Full Day	\$	20.00		\$	130.00		
Vehicles	Mileage at Federal IRS Reimbursement Rate (used only for daily use over 230 miles)	s	0.56					
	Air Velocity Meter (per use)	Þ	0.36		\$	25.00		
	Multi-meter Conductivity/pH/Temp/TDS				\$	165.00		
	Dissolved Oxygen Meter				\$	40.00		
Matara	FID Foxboro/Sensidyne (TIP) Flow Calibrator				\$	155.00 30.00		
Meters	PID or 580 OVM				\$	120.00		
	Turbidity Meter				\$	30.00		
	ppb RAE				\$	175.00		
	ORP Meter				\$	30.00 25.00		
	Air Pump - Low Flow (Barcad) Development Pump				\$	130.00		
	Electric Submersible Pump with Control Box (Units)				\$	130.00		
	Low-Flow Sampling Bladder	\$	12.00					
Pumps	Peristaltic Pump	\$	100.00		\$	105.00		
	Pumping Test Accessory Equipment (Flow Meters/Manifold Portable SVE Unit - 1.5 HP	Þ	100.00		\$	155.00		
	Intrinsically Safe Vapor Evacuation Blower				\$	125.00		
	Pneumatic Low-Flow Sampling Kit w/ Flow Cell and							
	Multimeter				\$	270.00		
	Asbestos Sampling Kit Asbestos Investigation Supplies				\$	250.00 130.00		
	Asbestos Sampling Core	\$	2.50					
	Bailers (Disposable)	\$	10.00		<b>.</b>	1-01		
	Bailers (Non-Disposable) Core Boxes	\$	10.00		\$	15.00		
	Core Sampler	و	10.00		\$	55.00		
	Data Logger with Transducer				\$	155.00		
	Well Caps	\$	30.00		¢	20.00		
	Elec. Well Sounder (Probe) Metal Detector				\$	30.00 50.00		
	5035 Sample Kit	\$	16.00		Ψ	50.00		
	Field Book	\$	11.00					
	Filter - Large	\$	18.00					
	Filter - Small Generator	\$	9.00		\$	105.00		
	Hand Auger				\$	30.00		
	Helium QA/QC Kit				\$	265.00		
	Helium QA/QC Accessories	\$	20.00		\$	105.00		
	Oil/Water Interface Probe Padlocks	\$	15.00		2	105.00		
	Steam Cleaner	Ť			\$	130.00		
	Transducer (ea)				\$	40.00		
Other	Coring Machine				\$	200.00 170.00		
	Rotary Hammer Drill Hand Drill				\$	75.00		
	Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 3/8" (	\$	1.50		Ť			
	Tubing (Bonded) - Polyethylene (Teflon): 1/4" OD X 1/4" (	\$	1.20					
	Tubing (Bonded) - Polyethylene (Teflon): 1/16" OD X 1/4" Tubing (Bonded) - Polyethylene: 1/4" OD X 3/8" OD (per f	\$	1.25					
	Tubing - Polyethylene: 1/4" OD (per foot)	\$	0.60					
	Tubing - Polyethylene: 1/2" OD (per foot)	\$	0.85					
	Tubing - Tygon: 3/8" STD (per foot)	\$	4.45					
	Tubing - Silicone: 3/8" STD (per foot) PFA Tubing - 1/2-inch ID	\$	4.50 5.00					
	55-Gallon Drum	\$	55.00					
	Temporary Sampling Port	\$	25.00					
	Vapor Pin Sub-Slab Sampling Port	\$	75.00					
	Sub-Slab Cover (Stainless Steel) Well Cover 8X12"	\$	40.00 105.00					
	Measuring Wheel	Ψ	. 55.00		\$	15.00		
	Camera				\$	25.00		
	1L Tedlar Bag	\$	20.00					
	Radon Sample Kit HAZMAT Exemption Shipper	\$	30.00 40.00		H			
	Manometers Manometers	\$	105.00					
	Westlaw	\$	105.00					
	CAD/drafting/graphics	\$	90.00		_	10.00		
	Cones, Baracades & Traffic Signs Gloves (Chemical Resistant)	\$	10.00		\$	10.00		
	Level "B": Level "C1" plus SCBA	٠	10.00		\$	210.00		
Safety	Level "C1": Level "C2" plus Polycoat Suit				\$	85.00		
	Level "C2": Level "D" plus Respirator				\$	40.00		
	Standby SCBA Routine Field and Safety Equipment				\$	130.00 50.00		
	1 Inch Binder	\$	9.00		Ψ	50.00		
	2 Inch Binder	\$	12.00					
	3 Inch Binder	\$	15.00					
roduction	4 Inch Binder  Binder Tabs (Set of 8)	\$	22.00 5.00					
roudction	Binder Tabs (Set of 8) Color Copies	\$	0.40	40				\$ 16.00
	B/W Copies	\$	0.40					- 10.00
	Document - Format/Sending	\$	15.00	1				\$ 15.00
	Report CD Copy	\$	5.00					\$31.00
		m -	m					\$31.00
	PHASE	TO	TAL					

Site Name: One Hour Martinizing

BRRTS #: 02-41-246246

Type of Action: Investigation

TASKS					В	UDGET									INVOICES		
	Arcadis Change	Arcadis Change	Arcadis Change	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	Total	Previous	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics
Bid / Budgeted Description	Order April 2013	Order March 2014	Order January 2015	Work Scope July 2015	Change Order #1 September 2018	Change Order #2 April 2019	Change Order #3 June 2019	Change Order #4 September 2019	Change Order #5 October 2019	Approved Budget	Claim (DC-648)	Invoice #20247 October 2018	Invoice #20454 November 2018	Invoice #20586 December 2018	Invoice #20681 January 2019	Invoice #20830 February 2019	Invoice #21146 April 2019
Consultant Costs				-		-				-							
Access, VI Assessments and Report	\$ 5,926.00									\$ 5,926.00	\$ 2,028.00						
Closure Reporting		\$ 7,722.00								\$ 7,722.00	\$ 7,195.80						
Additional SI and Vapor Mitigation			\$ 21,836.00							\$ 21,836.00	\$ 1,814.20						
Work Scope Development (1a)				\$ 1,499.00						\$ 1,499.00	\$ 1,426.50						
Access Coordination (1b)				\$ 2,483.00						\$ 2,483.00	\$ 2,444.00						
SSDS Install - 2262 S. 108th St (1c)				\$ 2,515.00						\$ 2,515.00	\$ 2,327.17						
SSDS Install - 2248 S. 108th St (1d)				\$ 2,515.00						\$ 2,515.00	\$ 2,531.36						
Post SSDS Confirmation Sampling (1e)				\$ 2,162.00						\$ 2,162.00	\$ -						
Sampling 10710 W. Lincoln Ave (1f)				\$ 2,303.00						\$ 2,303.00	\$ 1,126.25						
Investigation-Derived Media Mgmt (1g)				\$ 1,650.00						\$ 1,650.00	\$ -						
Reporting (1h)				\$ 5,592.00						\$ 5,592.00	\$ 3,422.00						
Project Management (1i)				\$ 2,700.00						\$ 2,700.00	\$ 1,856.00						
Closure Documentation (5b)					\$ 14,566.40	\$ 1,800.00	\$ 1,676.00			\$ 18,042.40		\$ 6,891.85	\$ 1,580.50	\$ 787.95	\$ 2,627.00	\$ 1,702.35	\$ 3,039.00
SSDS Inspections and Training (5c)							\$ 2,141.00			\$ 2,141.00							
Work Scope Preparation (6a)								\$ 949.00		\$ 949.00							
Access, SSDS Inspections, and Sump Sampling (6b)								\$ 1,350.00		\$ 1,350.00							
Results Reporting & Project Management (6c)								\$ 1,829.00		\$ 1,829.00 \$ -							
Work Scoping (7a)									\$ 949.00	\$ 949.00							
MMSD Permit, Plumbing, and Sump Lid Install (7b)									\$ 2,210.00	\$ 2,210.00							
Reporting, OM&M Plan Updates and PM (7c)									\$ 3,591.00	\$ 3,591.00							
Consultant Cost Total	\$ 5,926.00	\$ 7,722.00	\$ 21,836.00	\$ 23,419.00	\$ 14,566.40	\$ 1,800.00	\$ 3,817.00	\$ 4,128.00	\$ 6,750.00	\$ 89,964.40	\$ 26,171.28	\$ 6,891.85	\$ 1,580.50	\$ 787.95	\$ 2,627.00	\$ 1,702.35	\$ 3,039.00
Sub-Contractor Costs																	
Waste Disposal			\$ 25,895.00							\$ 45,895.00	\$ 23,990.00						
Air/Vapor Sample Analysis			\$ 1,085.00	,						\$ 3,964.00	\$ 1,982.00						
Waste Disposal				\$ 175.00						\$ 175.00							
Analytical Laboratory								\$ 267.00		\$ 267.00							
Plumbing Contractor									\$ 1,000.00	\$ 1,000.00							
Sub-Contractor Cost Total	\$ -	\$ -	\$ 26,980.00	, .,	,	\$ -	\$ -	\$ 267.00	,	\$ 51,301.00	\$ 25,972.00	\$ -	\$ -	\$ -	\$ -	•	\$ -
DERF ELIGIBLE SUB-TOTALS	\$ 5,926.00	\$ 7,722.00	\$ 48,816.00	\$ 46,473.00	\$ 14,566.40	\$ 1,800.00	\$ 3,817.00	\$ 4,395.00		\$ 141,265.40	\$ 52,143.28	\$ 6,891.85	\$ 1,580.50	\$ 787.95	\$ 2,627.00	\$ 1,702.35	\$ 3,039.00
Non-DERF Eligible Expenses											D 047.50						
Postage/ mileage/ permit fees											\$ 2,217.59						
Attorney-Directed Tasks											\$ 919.32			1			
Subcontractor Markup											\$ 39.00	Φ.	Φ.	Φ.	•	<b>.</b>	
Non-DERF Cost Total											\$ 3,175.91	\$ -	\$ -	\$ -	\$ -	*	\$ -
INVOICE GRAND TOTAL								_			\$ 55,319.19	\$ 6,891.85	\$ 1,580.50	\$ 787.95	\$ 2,627.00	\$ 1,702.35	\$ 3,039.00

Site Name: One Hour Martinizing
BRRTS #: 02-41-246246
Type of Action: Investigation

TASKS							BU	DGET							
Bid / Budgeted Description	Arcadis C Order / 201	April	Arcadis Change Order March 2014	Arcadis Change Order January 2015	EnviroForensio Work Scope July 2015	EnviroFore Change Ord September	der #1	EnviroForensics Change Order #2 April 2019	EnviroForensics Change Order #3 June 2019	EnviroForensics Change Order #4 September 2019	Change Order #5	 Total Approved Budget	Previous Claim (DC-648)	Tot	tal Invoice Costs
Consultant Costs															
Access, VI Assessments and Report	\$ 5,9	926.00										\$ 5,926.00	\$ 2,028.00	\$	-
Closure Reporting			\$ 7,722.00									\$ 7,722.00	\$ 7,195.80	\$	-
Additional SI and Vapor Mitigation				\$ 21,836.00								\$ 21,836.00	\$ 1,814.20	\$	-
Work Scope Development (1a)					\$ 1,499.	10						\$ 1,499.00	\$ 1,426.50	\$	
Access Coordination (1b)					\$ 2,483.	10						\$ 2,483.00	\$ 2,444.00	\$	-
SSDS Install - 2262 S. 108th St (1c)					\$ 2,515.	10						\$ 2,515.00	\$ 2,327.17	\$	-
SSDS Install - 2248 S. 108th St (1d)					\$ 2,515.							\$ 2,515.00	\$ 2,531.36	\$	-
Post SSDS Confirmation Sampling (1e)					\$ 2,162.	10						\$ 2,162.00	\$ -	\$	-
Sampling 10710 W. Lincoln Ave (1f)					\$ 2,303.	0						\$ 2,303.00	\$ 1,126.25	\$	-
Investigation-Derived Media Mgmt (1g)					\$ 1,650.	0						\$ 1,650.00	\$ -	\$	-
Reporting (1h)					\$ 5,592.	0						\$ 5,592.00	\$ 3,422.00	\$	-
Project Management (1i)					\$ 2,700.	0						\$ 2,700.00	\$ 1,856.00	\$	-
Closure Documentation (5b)						\$ 14,	,566.40	\$ 1,800.00	\$ 1,676.00			\$ 18,042.40		\$	16,628.6
SSDS Inspections and Training (5c)									\$ 2,141.00			\$ 2,141.00		\$	-
Work Scope Preparation (6a)										\$ 949.00	)	\$ 949.00		+	
Access, SSDS Inspections, and Sump Sampling (6b)										\$ 1,350.00	)	\$ 1,350.00			
Results Reporting & Project Management (6c)										\$ 1,829.00	)	\$ 1,829.00			
Work Scoping (7a)											\$ 949.00	\$ 949.00		+	
MMSD Permit, Plumbing, and Sump Lid Install (7b)											\$ 2,210.00	\$ 2,210.00			
Reporting, OM&M Plan Updates and PM (7c)											\$ 3,591.00	\$ 3,591.00			
Consultant Cost Total	\$ 5,9	926.00	\$ 7,722.00	\$ 21,836.00	\$ 23,419.	00 \$ 14.	.566.40	\$ 1,800.00	\$ 3,817.00	\$ 4,128.00	0 \$ 6,750.0	\$ 89,964.40	\$ 26,171.28	\$	16,628.6
Sub-Contractor Costs															
Waste Disposal				\$ 25,895.00	\$ 20,000.	0						\$ 45,895.00	\$ 23,990.00	\$	-
Air/Vapor Sample Analysis				\$ 1,085.00	\$ 2,879.	00						\$ 3,964.00	\$ 1,982.00	\$	-
Waste Disposal					\$ 175.	00						\$ 175.00		\$	-
Analytical Laboratory										\$ 267.00	)	\$ 267.00			
Plumbing Contractor											\$ 1,000.00	\$ 1,000.00			
Sub-Contractor Cost Total	\$	-	\$ -	\$ 26,980.00	\$ 23,054.	00 \$	-	\$ -	\$ -	\$ 267.00	) \$ 1,000.0	\$ 51,301.00	\$ 25,972.00	\$	-
DERF ELIGIBLE SUB-TOTALS	\$ 5.9	926.00	\$ 7,722.00	\$ 48,816.00	\$ 46,473.	0 \$ 14.	566.40	\$ 1,800.00	\$ 3,817.00	\$ 4,395.00	)	\$ 141,265.40	\$ 52,143.28	\$	16,628.6

Non-DERF Eligible Expenses						
Postage/ mileage/ permit fees				\$	2,217.59	\$ -
Attorney-Directed Tasks				\$	919.32	
Subcontractor Markup				\$	39.00	\$ -
Non-DERF Cost Total				\$	3,175.91	\$ -
INVOICE GRAND TOTAL				\$	55,319.19	\$ 16,628.65

Dry Cleaner Environmental Response Prog Reimbursement Cost Detail Linking Sprea

\$ 16,628.65

Total DERF Eligible Costs This Claim

Site Name: One Hour Martinizing
BRRTS #: 02-41-246246
Type of Action: Investigation

TASKS	BUDGET											DERF COST BREAKOUT (thi				OUT (this cla	is claim)		
	Arcadis Change	Arcadis Change	Arcadis Change	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	EnviroForensics	Total	Previous	Α	В	С	D	E	F	G	
Bid / Budgeted Description	Order April 2013	Order March 2014	Order January 2015	Work Scope July 2015	Change Order #1 September 2018	Change Order #2 April 2019	Change Order #3 June 2019	Change Order #4 September 2019	Change Order #5 October 2019	Approved Budget	Claim (DC-648)	Soil Investigation	Soil Remediation	Groundwater Investigation	Groundwater Remediation	Air/Vapor Investigation	Air/Vapor Remediation	Lab & Other Analysis	
Consultant Costs																			
Access, VI Assessments and Report	\$ 5,926.00									\$ 5,926.00	\$ 2,028.00								
Closure Reporting		\$ 7,722.00								\$ 7,722.00	\$ 7,195.80								
Additional SI and Vapor Mitigation			\$ 21,836.00							\$ 21,836.00	\$ 1,814.20								
Work Scope Development (1a)				\$ 1,499.00						\$ 1,499.00	\$ 1,426.50								
Access Coordination (1b)				-,						\$ 2,483.00	\$ 2,444.00								
SSDS Install - 2262 S. 108th St (1c)				\$ 2,515.00						\$ 2,515.00	\$ 2,327.17								
SSDS Install - 2248 S. 108th St (1d)				\$ 2,515.00						\$ 2,515.00	\$ 2,531.36								
Post SSDS Confirmation Sampling (1e)				\$ 2,162.00						\$ 2,162.00	\$ -								
Sampling 10710 W. Lincoln Ave (1f)				\$ 2,303.00						\$ 2,303.00	\$ 1,126.25								
Investigation-Derived Media Mgmt (1g)				\$ 1,650.00						\$ 1,650.00	\$ -								
Reporting (1h)				\$ 5,592.00						\$ 5,592.00	\$ 3,422.00								
Project Management (1i)				\$ 2,700.00						\$ 2,700.00	\$ 1,856.00								
Closure Documentation (5b)					\$ 14,566.40	\$ 1,800.00	\$ 1,676.00			\$ 18,042.40									
SSDS Inspections and Training (5c)							\$ 2,141.00			\$ 2,141.00									
Work Scope Preparation (6a)								\$ 949.00		\$ 949.00					+			+	
Access, SSDS Inspections, and Sump Sampling (6b)								\$ 1.350.00		\$ 1.350.00								+	
Results Reporting & Project Management (6c)								\$ 1,829.00		\$ 1,829.00					†			+	
										\$ -									
Work Scoping (7a)									\$ 949.00	\$ 949.00									
MMSD Permit, Plumbing, and Sump Lid Install (7b)									\$ 2,210.00	\$ 2,210.00									
Reporting, OM&M Plan Updates and PM (7c)									\$ 3,591.00	\$ 3,591.00									
Consultant Cost Total	\$ 5,926.00	\$ 7,722.00	\$ 21,836.00	\$ 23,419.00	\$ 14,566.40	\$ 1,800.00	\$ 3,817.00	\$ 4,128.00	\$ 6,750.00	\$ 89,964.40	\$ 26,171.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Sub-Contractor Costs																			
Waste Disposal			\$ 25,895.00	\$ 20,000.00						\$ 45,895.00	\$ 23,990.00								
Air/Vapor Sample Analysis			\$ 1,085.00	\$ 2,879.00						\$ 3,964.00	\$ 1,982.00								
Waste Disposal				\$ 175.00						\$ 175.00								1	
Analytical Laboratory								\$ 267.00		\$ 267.00								1	
Plumbing Contractor									\$ 1,000.00	\$ 1,000.00								1	
Sub-Contractor Cost Total	\$ -	\$ -	\$ 26,980.00	\$ 23,054.00	\$ -	\$ -	\$ -	\$ 267.00	\$ 1,000.00	\$ 51,301.00	\$ 25,972.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
DERF ELIGIBLE SUB-TOTALS	\$ 5.926.00	\$ 7.722.00	\$ 48.816.00	\$ 46,473,00	\$ 14.566.40	\$ 1.800.00	\$ 3,817.00	\$ 4.395.00	,	\$ 141,265.40	\$ 52,143.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Non-DERF Eligible Expenses								
Postage/ mileage/ permit fees						\$	2,2	217.59
Attorney-Directed Tasks						\$		919.32
Subcontractor Markup						\$		39.00
Non-DERF Cost Total						\$	3,1	175.91
INVOICE GRAND TOTAL						\$	55,3	319.19
	 <u>-</u>	•	-	-	_	-		-

Site Name: One Hour Martinizing
BRRTS #: 02-41-246246
Type of Action: Investigation gram dsheet Form 4400-214D (R 08/12)

TASKS					В	UDGET							l	
Bid / Budgeted Description	Arcadis Char Order Apri 2013	·	ge Arcadis Change Order January 2015	EnviroForensics Work Scope July 2015	EnviroForensics Change Order #1 September 2018	EnviroForensics Change Order #2 April 2019	EnviroForensics Change Order #3 June 2019	EnviroForensics Change Order #4 September 2019	EnviroForensics Change Order #5 October 2019	Total Approved Budget	Previous Claim (DC-648)	H Miscellaneous Costs	Budget Remaining Use (-) to indicate cost over-run	% Task Complete, Remarks
Consultant Costs														
Access, VI Assessments and Report	\$ 5,926.	00								\$ 5,926.00	\$ 2,028.00		\$ 3,898.00	100
Closure Reporting		\$ 7,722.0	0							\$ 7,722.00	\$ 7,195.80		\$ 526.20	100
Additional SI and Vapor Mitigation			\$ 21,836.00							\$ 21,836.00	\$ 1,814.20		\$ 20,021.80	100, Consultant Change
Work Scope Development (1a)				\$ 1,499.00						\$ 1,499.00	\$ 1,426.50		\$ 72.50	100
Access Coordination (1b)				\$ 2,483.00						\$ 2,483.00	\$ 2,444.00		\$ 39.00	100
SSDS Install - 2262 S. 108th St (1c)				\$ 2,515.00						\$ 2,515.00	\$ 2,327.17		\$ 187.83	100
SSDS Install - 2248 S. 108th St (1d)				\$ 2,515.00						\$ 2,515.00	\$ 2,531.36		\$ (16.36)	100
Post SSDS Confirmation Sampling (1e)				\$ 2,162.00						\$ 2,162.00	\$ -		\$ 2,162.00	0
Sampling 10710 W. Lincoln Ave (1f)				\$ 2,303.00						\$ 2,303.00	\$ 1,126.25		\$ 1,176.75	100
Investigation-Derived Media Mgmt (1g)				\$ 1,650.00						\$ 1,650.00	\$ -		\$ 1,650.00	100
Reporting (1h)				\$ 5,592.00						\$ 5,592.00	\$ 3,422.00		\$ 2,170.00	100
Project Management (1i)				\$ 2,700.00						\$ 2,700.00	\$ 1,856.00		\$ 844.00	100
Closure Documentation (5b)					\$ 14,566.40	\$ 1,800.00	\$ 1,676.00			\$ 18,042.40		\$ 16,628.65	\$ 1,413.75	85
SSDS Inspections and Training (5c)							\$ 2,141.00			\$ 2,141.00			\$ 2,141.00	0
Work Scope Preparation (6a)								\$ 949.00		\$ 949.00				
Access, SSDS Inspections, and Sump Sampling (6b)								\$ 1,350,00		\$ 1.350.00				
Results Reporting & Project Management (6c)								\$ 1,829.00		\$ 1,829.00				
Work Scoping (7a)									\$ 949.00	\$ - \$ 949.00				
MMSD Permit, Plumbing, and Sump Lid Install (7b)	1	+							\$ 2,210.00	\$ 2,210.00		1		
Reporting, OM&M Plan Updates and PM (7c)	1	+							\$ 3,591.00			1		
Consultant Cost Total	\$ 5.926.	n \$ 7.722.0	0 \$ 21.836.00	\$ 23.419.00	\$ 14.566.40	\$ 1.800.00	\$ 3.817.00	\$ 4,128.00	+ -,	* -,	\$ 26.171.28	\$ 16.628.65	\$ 34,145.47	
Sub-Contractor Costs	ψ 0,920.	γ 1,122.0	21,000.00	Ψ 25,419.00	ψ 17,000.40	Ψ 1,000.00	Ψ 3,017.00	Ψ 4,120.00	ψ 0,700.00	ψ 00,00 <del>1</del> .40	Ψ 20,171.20	Ψ 10,020.00	φ 54,140.47	
Waste Disposal			\$ 25,895.00	\$ 20,000.00						\$ 45,895.00	\$ 23,990.00		\$ 21,905.00	100
Air/Vapor Sample Analysis			\$ 1,085.00	\$ 2,879.00						\$ 3,964.00	\$ 1,982.00		\$ 1,982.00	100
Waste Disposal				\$ 175.00						\$ 175.00			\$ 175.00	100
Analytical Laboratory								\$ 267.00		\$ 267.00				
Plumbing Contractor									\$ 1,000.00	\$ 1,000.00				
Sub-Contractor Cost Total	\$ -	\$ -	\$ 26,980.00	\$ 23,054.00	\$ -	\$ -	\$ -	\$ 267.00	\$ 1,000.00	\$ 51,301.00	\$ 25,972.00	\$ -	\$ 24,062.00	
DERF ELIGIBLE SUB-TOTALS	\$ 5,926.	00 \$ 7,722.0	0 \$ 48,816.00	\$ 46,473.00	\$ 14,566.40	\$ 1,800.00	\$ 3,817.00	\$ 4,395.00		\$ 141,265.40	\$ 52,143.28	\$ 16,628.65	\$ 58,207.47	

Non-DERF Eligible Expenses										
Postage/ mileage/ permit fees								\$	į.	2,217.59
Attorney-Directed Tasks								\$	ò	919.32
Subcontractor Markup								\$	ò	39.00
Non-DERF Cost Total								\$	į.	3,175.91
INVOICE GRAND TOTAL								\$	5 55	5,319.19
	-		-	=	=	3	-	-		